

MF-3II EQUIPMENT

FIELD INSTRUCTIONS

GENERAL, CIRCUIT, ELECTRICAL, DIAGRAMS

7131106.046 U114

NY 106,046,044

"NY 111"

Outline of Project No. 1

Organization, general, current, historical

Serial	Description	Notes	Remarks
1	NY 106,046,044	Complete form	
2		Complete form	
3	NY 106,046,044	Complete form	
4		Complete form	
5	NY 106,046,044	Complete form	
6		Complete form	
7		Complete form	
8		Complete form	
9		Complete form	
10	NY 106,046,044	Complete form	
11		Complete form	

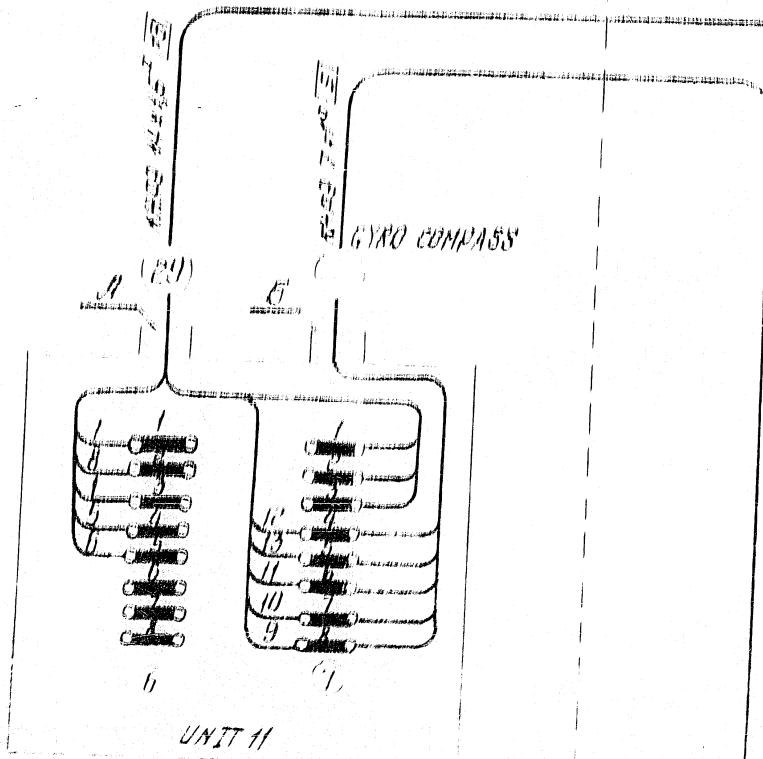
NY 106,046,044

NY 106,046,044

STAT

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WHEELHOUSE



GYRO COMPASS

4403 7x19 13"

VERTICAL GYRO

4403 16x16 12"

GYRO

4403 10x15 12"

GYRO

4403 10x15 12"

GYRO

4403 10x15 12"

GYRO

4403 10x15 12"

GYRO

4403 10x15 12"

GYRO

4403 10x15 12"

GYRO

4403 10x15 12"

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GYRO

4403 10x15 12"

GYRO

4403 10x15 12"

GYRO

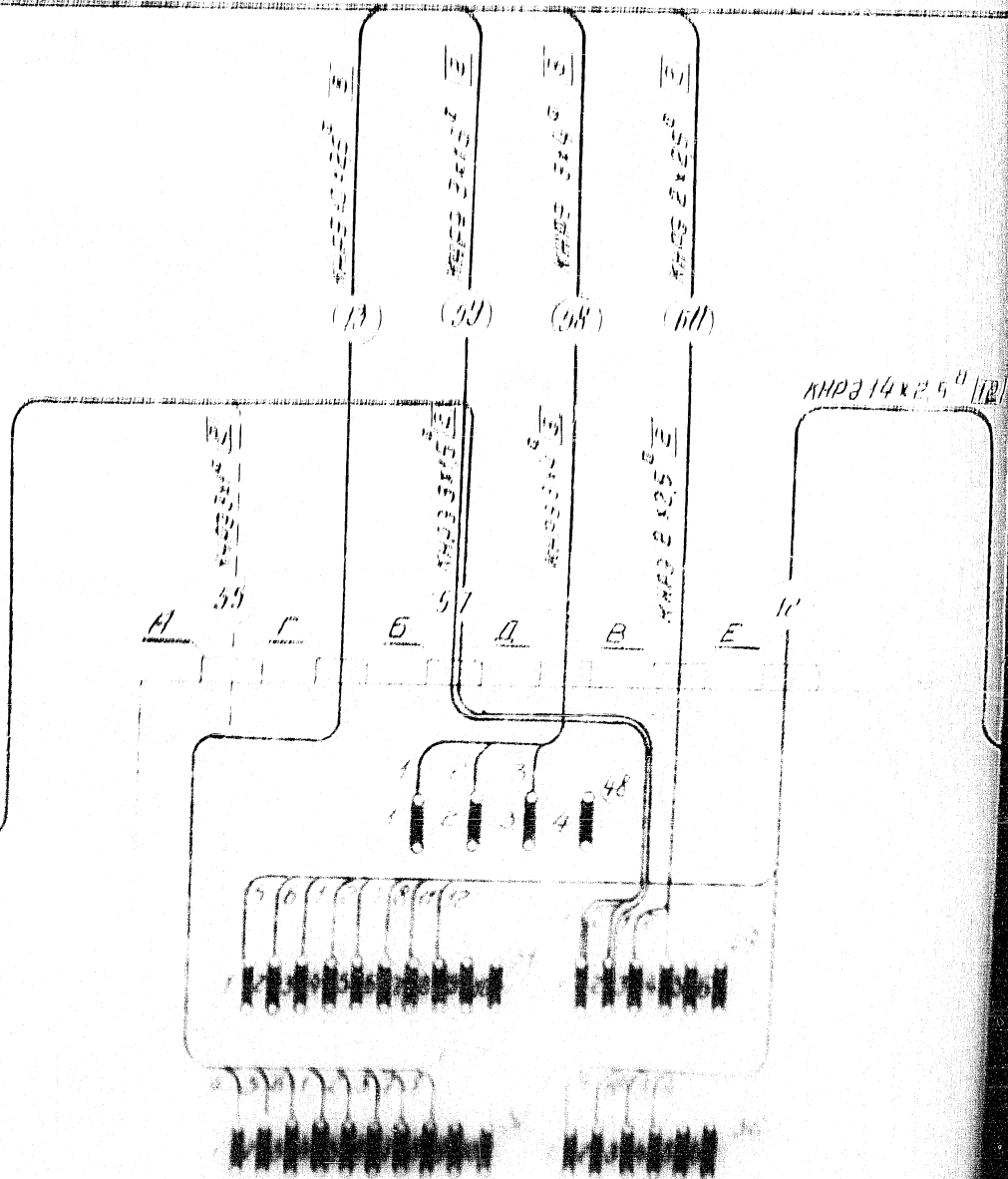
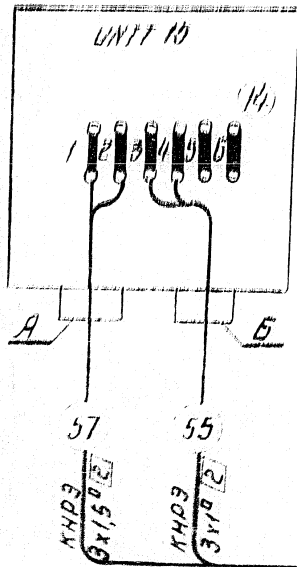
4403 10x15 12"

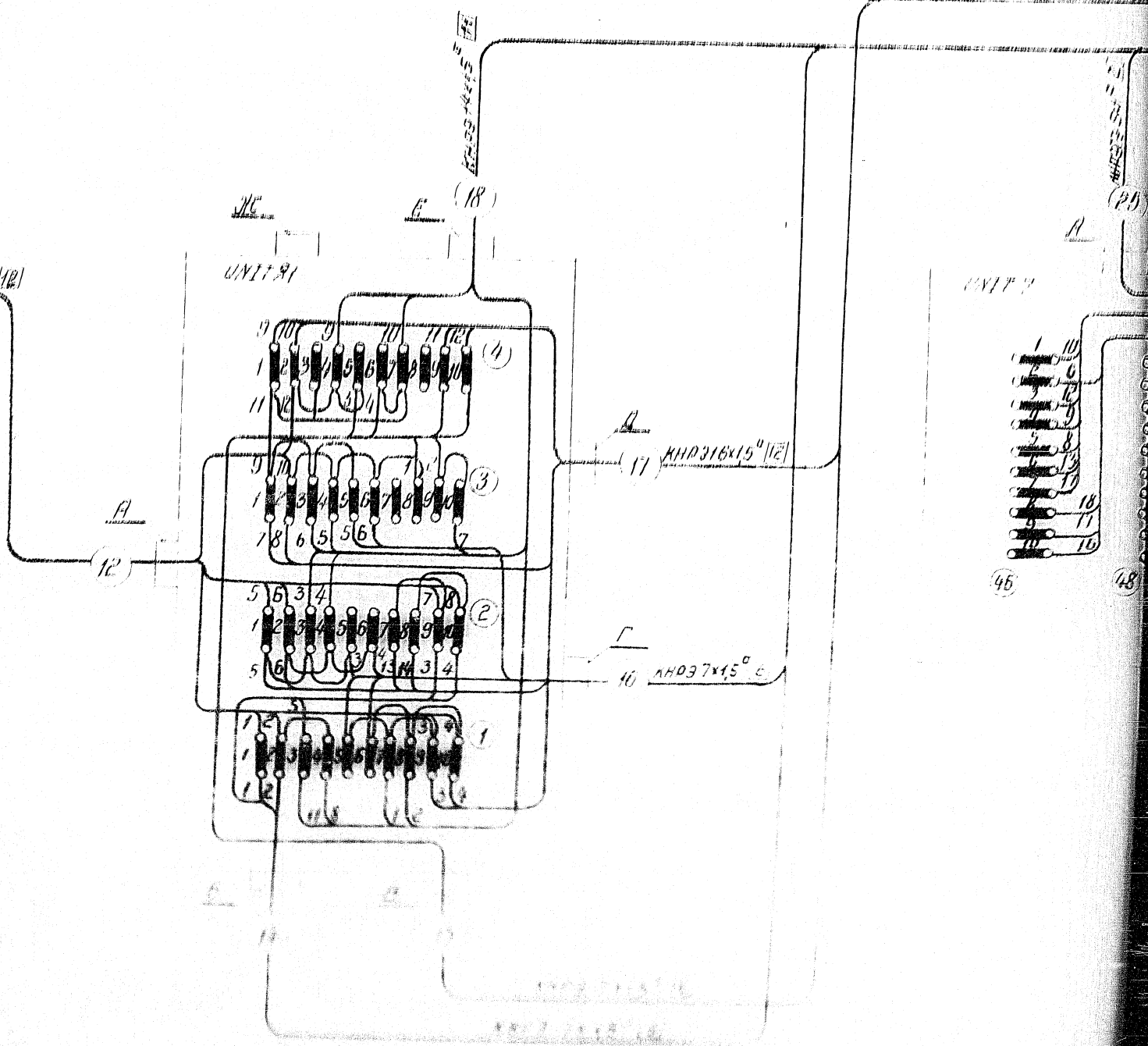
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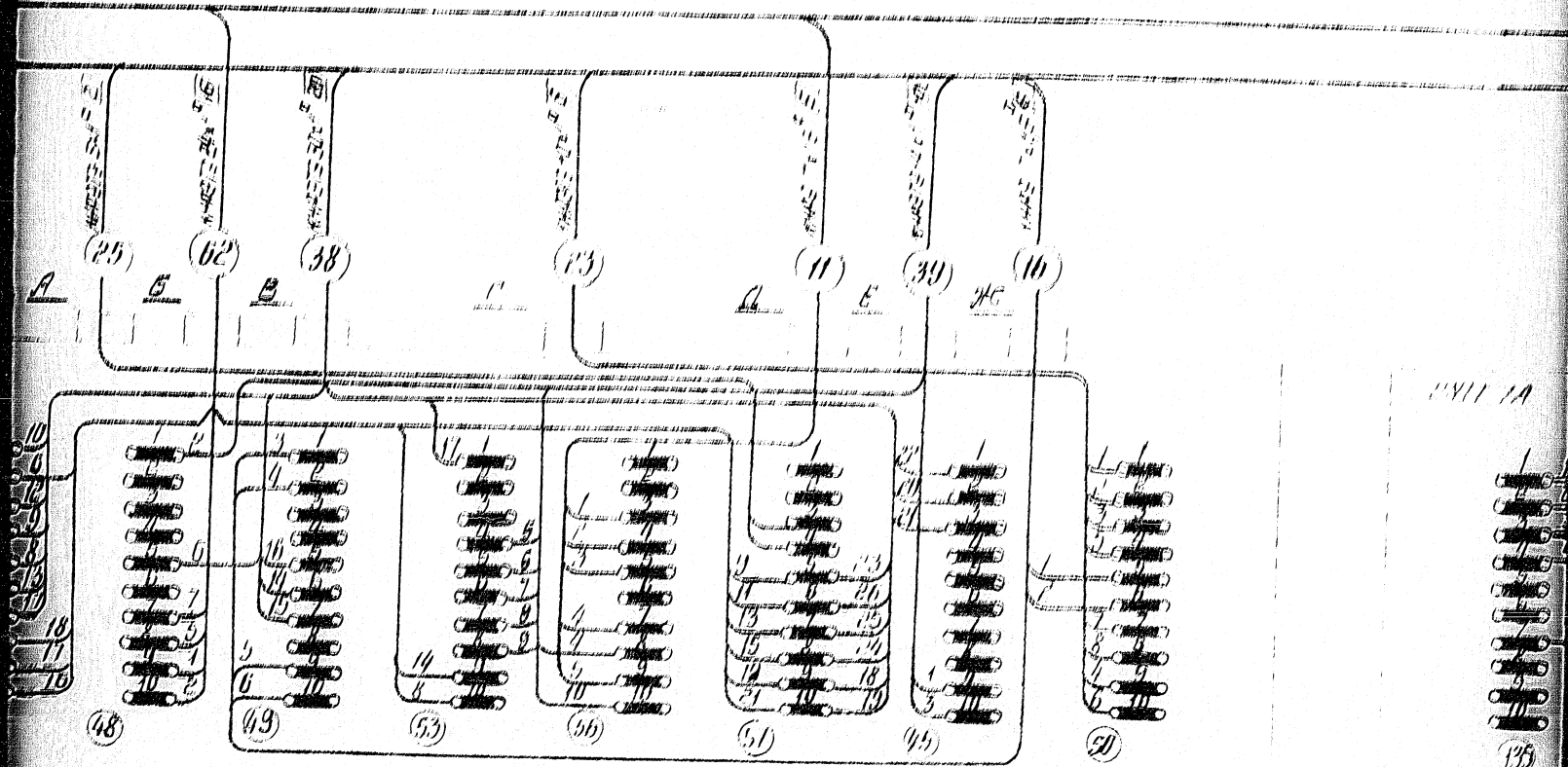
4403 10x15 12"

GYRO

4403 10x15 12"

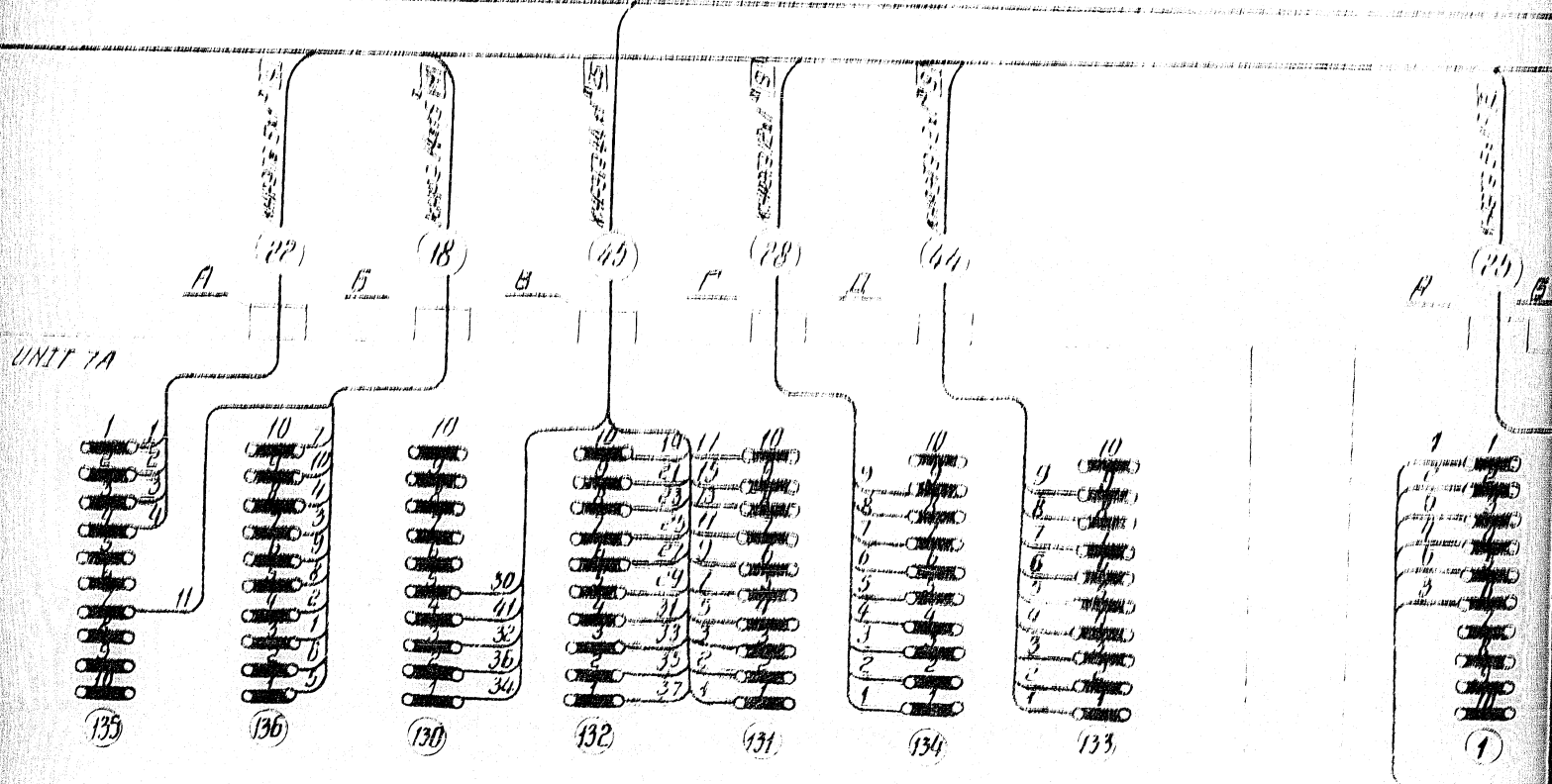


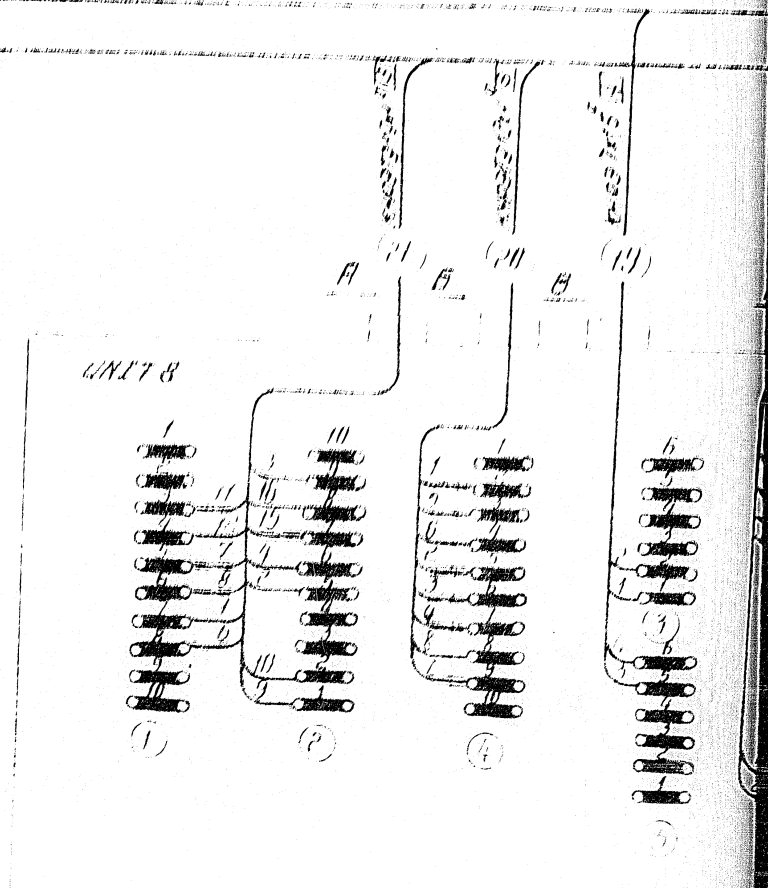
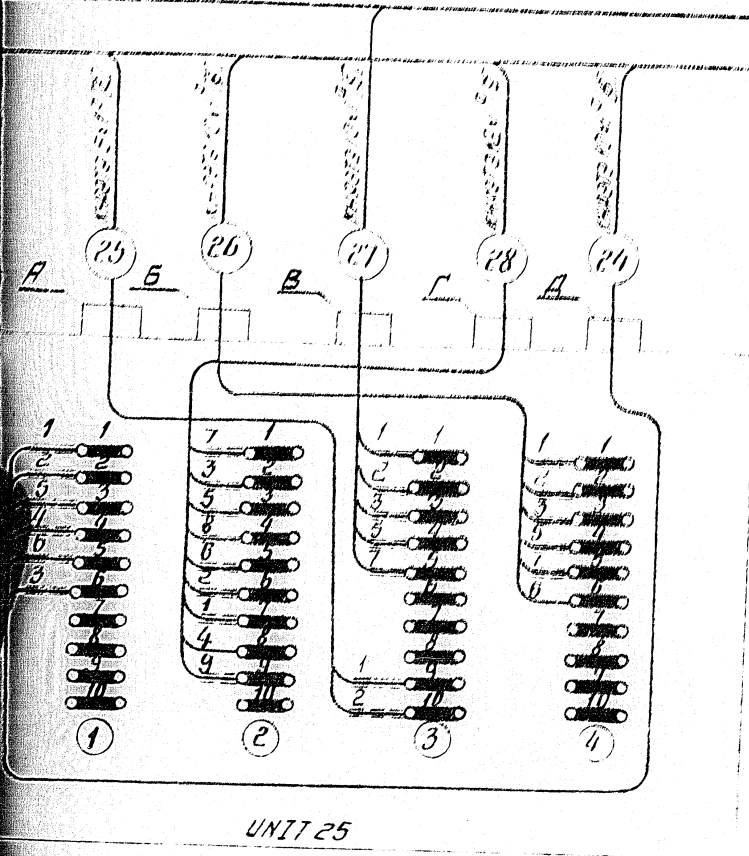


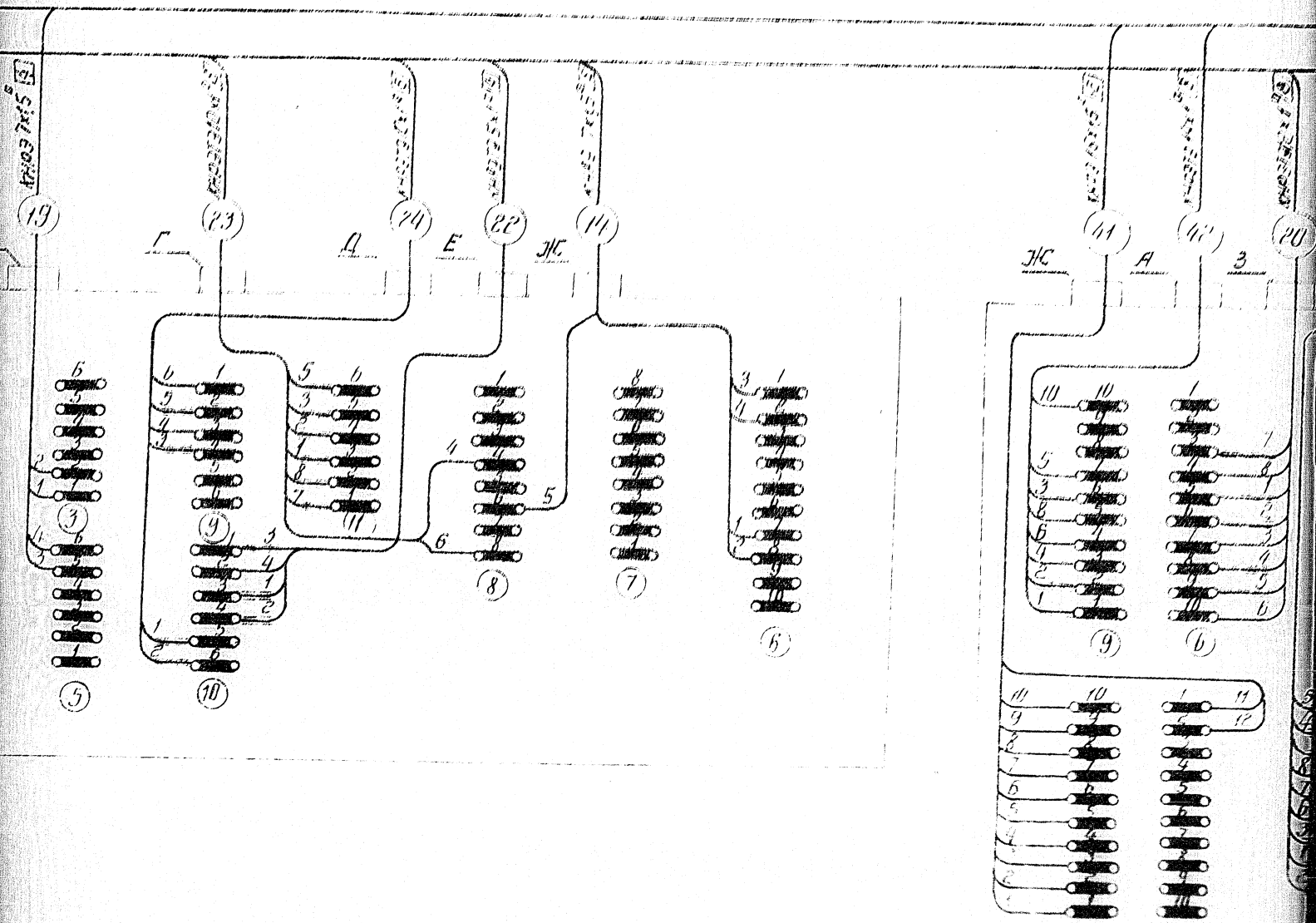


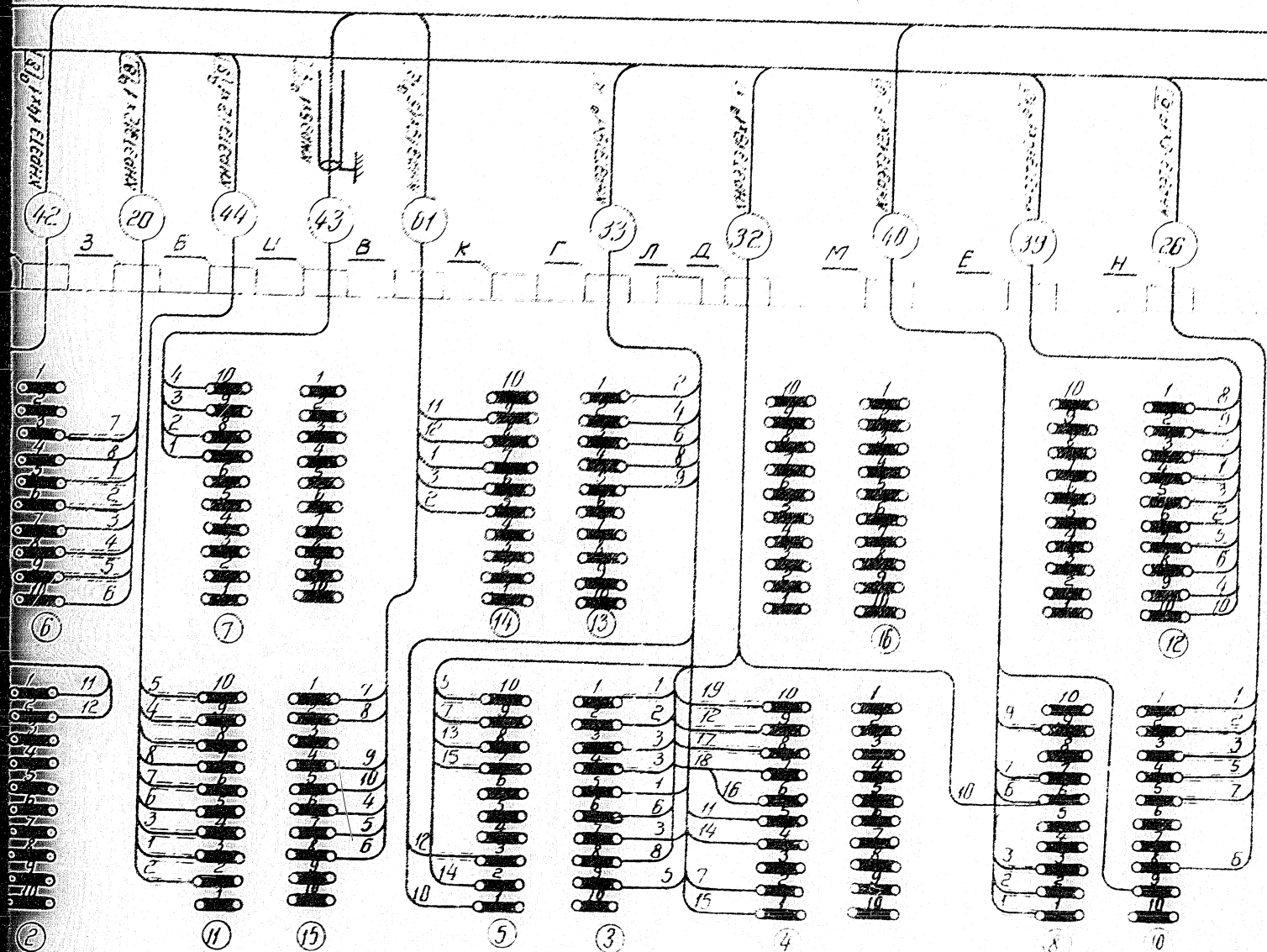
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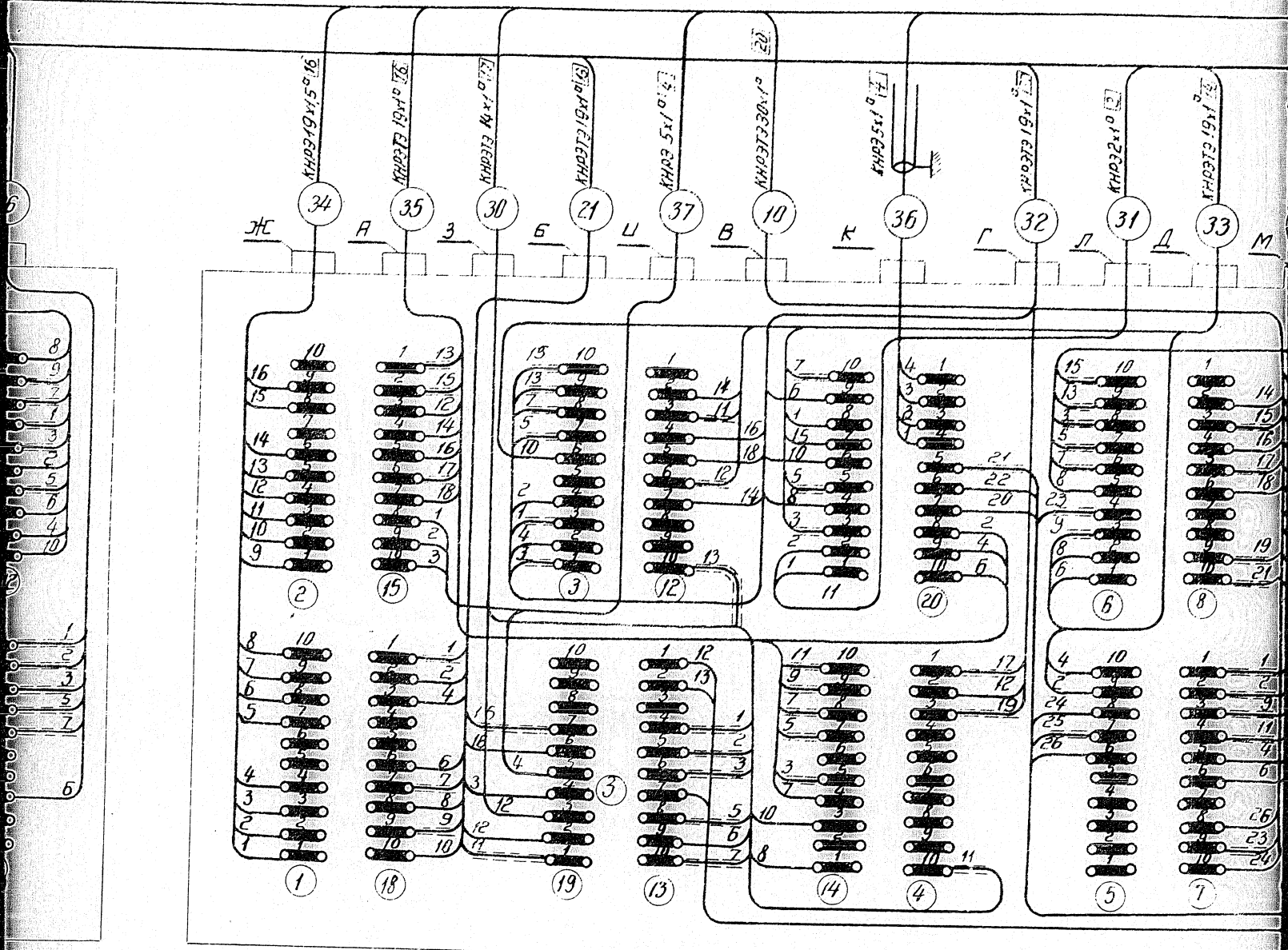
STATE 22



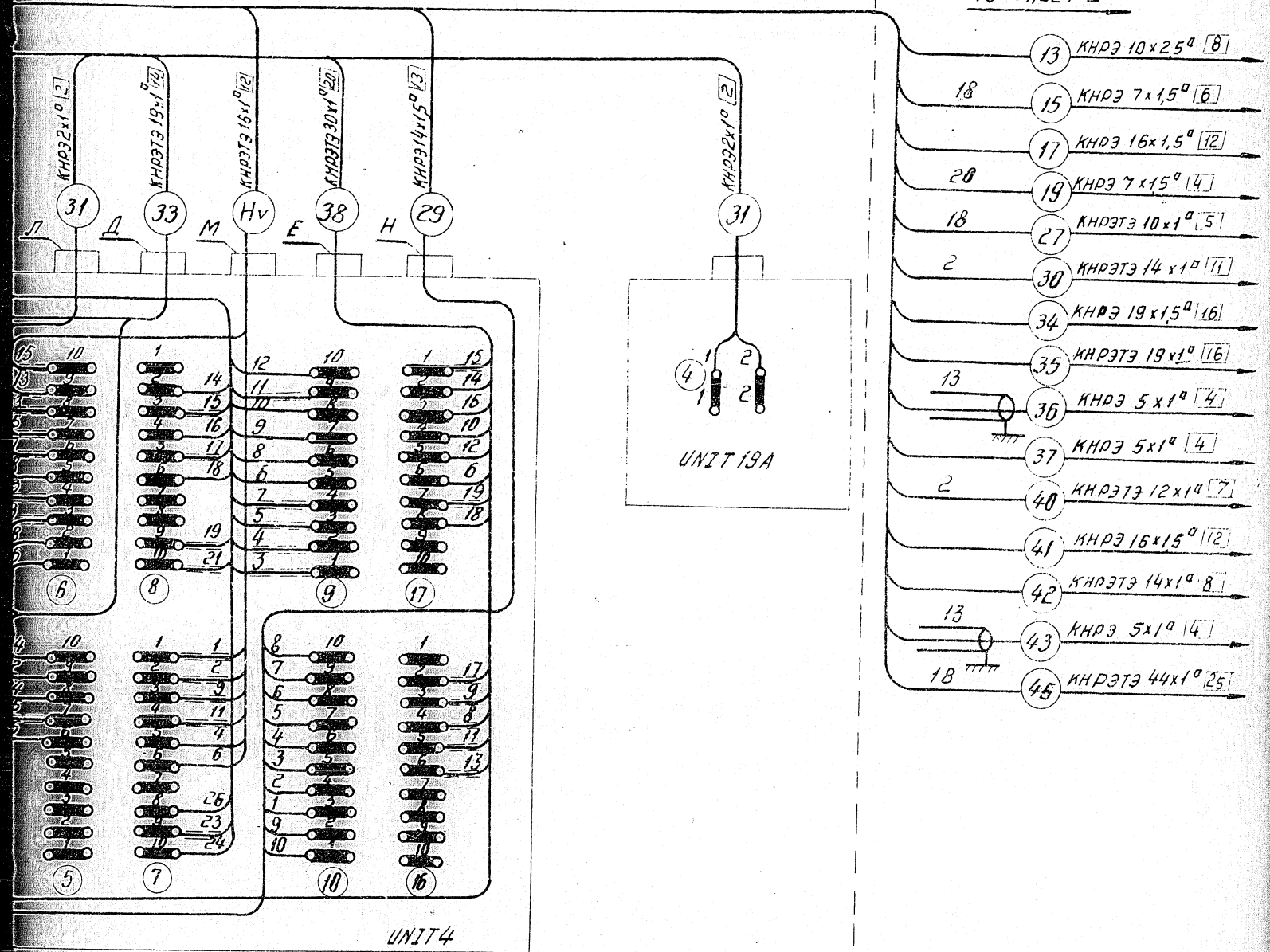








TO SHEET 2



TO SHEET 2

13 KHP3 10x2.5^a [8]15 KHP3 7x1.5^a [6]17 KHP3 16x1.5^a [12]19 KHP3 7x1.5^a [4]27 KHP3T3 10x1^a [5]30 KHP3T3 14x1^a [11]34 KHP3 19x1.5^a [16]35 KHP3T3 19x1^a [16]36 KHP3 5x1^a [4]37 KHP3 5x1^a [4]40 KHP3T3 12x1^a [7]41 KHP3 16x1.5^a [12]KHP3T3 14x1^a [8]KHP3 5x1^a [4]KHP3T3 44x1^a [25]

1. CABLES 36 AND 43 TO BE INSTALLED IN STEEL PIPES. MINIMUM SPACE, BUT NOT LESS THAN 30CM, TO BE PROVIDED BETWEEN PIPE END FACE /NEAR CABLE GLAND/ AND GLAND. PIPE TO BE GROUNDED NEAR ITS END FACE.
2. SHIELDS OF KHP3T3 CABLE CORES TO BE GROUNDED.
3. CABLES 1 THRU 6 GRADE K3C 6x1.5^a TO BE FURNISHED WITH UNIT 1. EACH CABLE TO BE 20M LONG.
4. CABLE 9 GRADE K3A 2x1.5^a TO BE FURNISHED WITH UNIT 1A. CABLE TO BE 20M LONG.
5. RUBBER SHIELD OF CABLE 7 TO BE SPLICED DIRECTLY IN FRONT OF ELECTRIC MOTOR CABLE GLAND.

"MF-3H"
CONNECTIONS
DIAGRAM

191106046 CXC

Sheet 1 Sheets: 2

format: 4:14

TO SHEET 2

13 KHP3 10x25^a [8]15 KHP3 7x15^a [6]17 KHP3 16x15^a [12]19 KHP3 7x15^a [4]27 KHP3T3 10x1^a [5]30 KHP3T3 14x1^a [11]34 KHP3 19x15^a [16]35 KHP3T3 19x1^a [16]36 KHP3 5x1^a [4]37 KHP3 5x1^a [4]

40 KHP3T3 12x14 [7]

41 KHP3 16x15^a [12]KHP3T3 14x1^a [8]KHP3 5x1^a [4]KHP3T3 44x1^a [25]

1. CABLES 36 AND 43 TO BE INSTALLED IN STEEL PIPES. MINIMUM SPECE, BUT NOT LESS THAN 30CM, TO BE PROVIDED BETWEEN PIPE END FACE /NEAR CABLE GLAND/ AND GLAND. PIPE TO BE GROUNDED NEAR ITS END FACE.
2. SHIELDS OF KHP3T3 CABLE CORES TO BE GROUNDED.
3. CABLES 1 THRU 6 GRADE K3C 5x15^a TO BE FURNISHED WITH UNIT 1. EACH CABLE TO BE 20M LONG.
4. CABLE 9 GRADE KBA 2x15^a TO BE FURNISHED WITH UNIT 1A. CABLE TO BE 20M LONG.
5. RUBBER SHIETH OF CABLE 7 TO BE SPICED DIRECTLY IN FRONT OF ELECTRIC MOTOR CABLE GLAND.

"MF-311"
CONNECTIONS
DIAGRAM

141.106.046 CXC

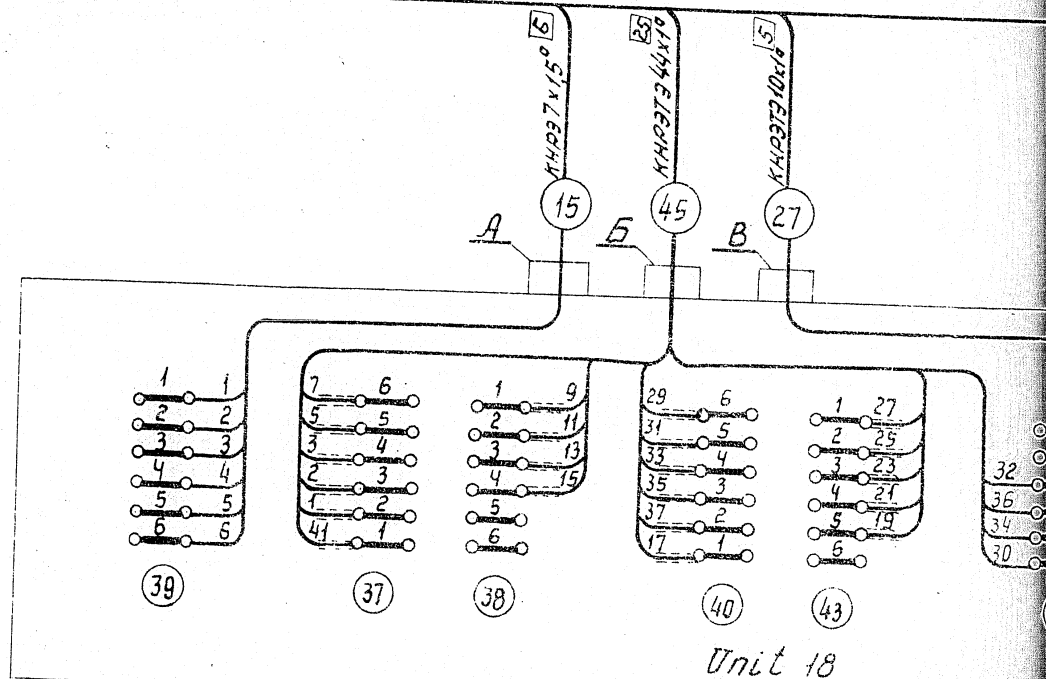
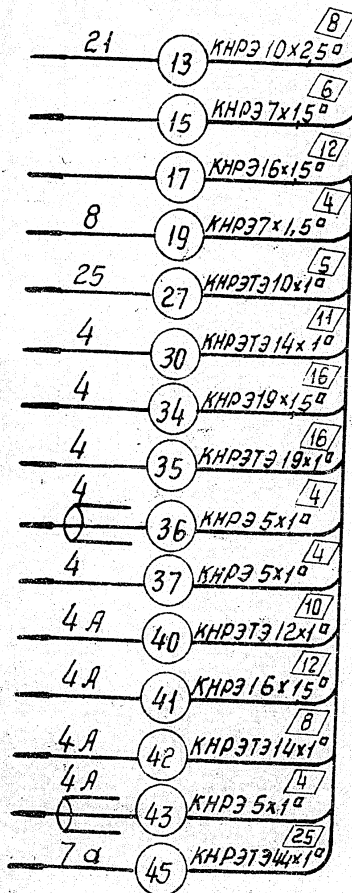
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Формат 4-14

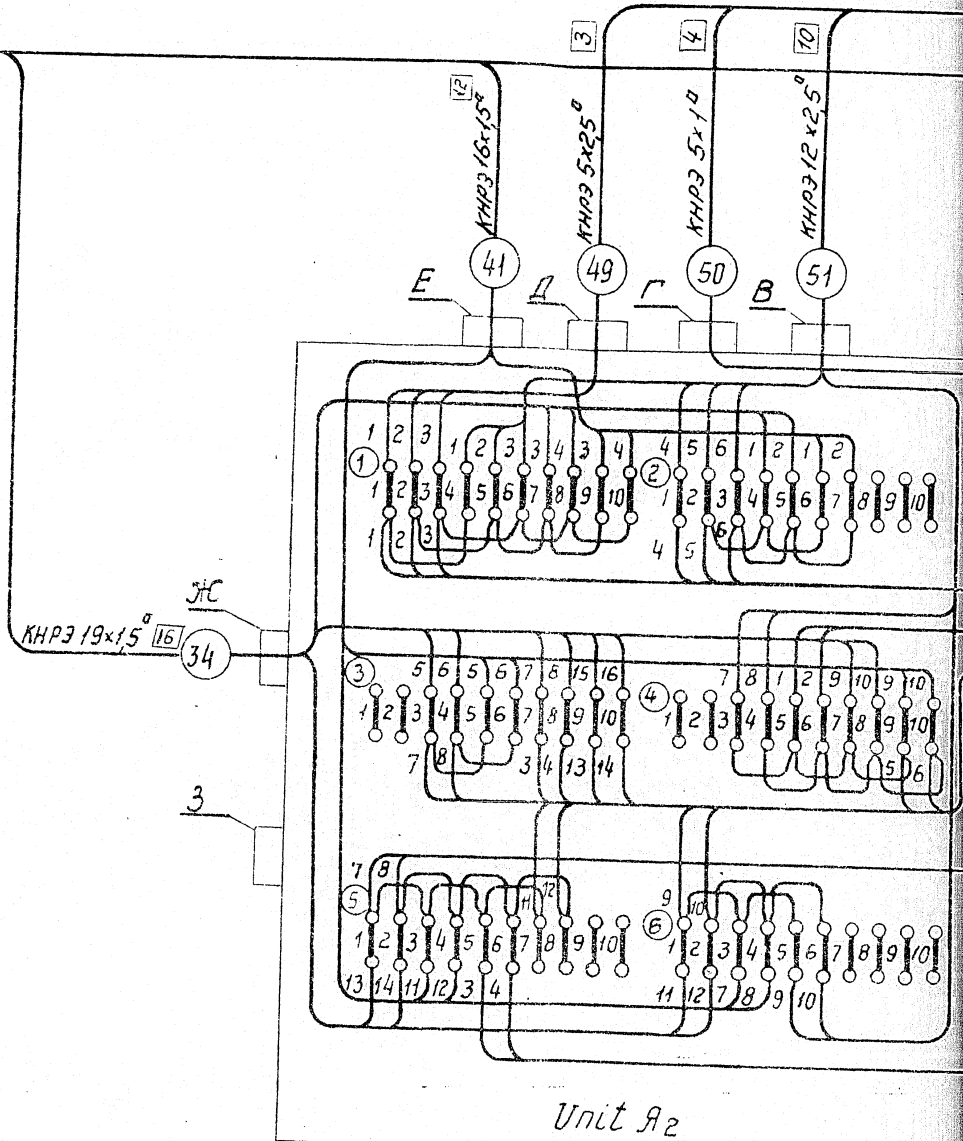
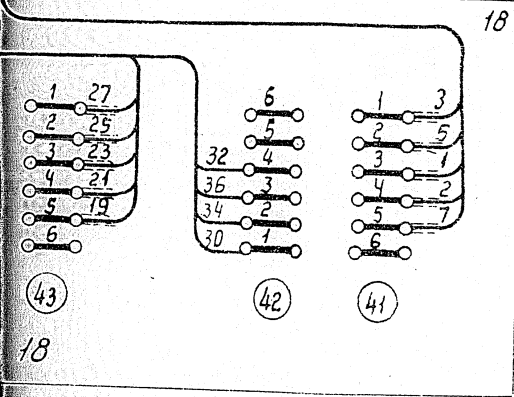
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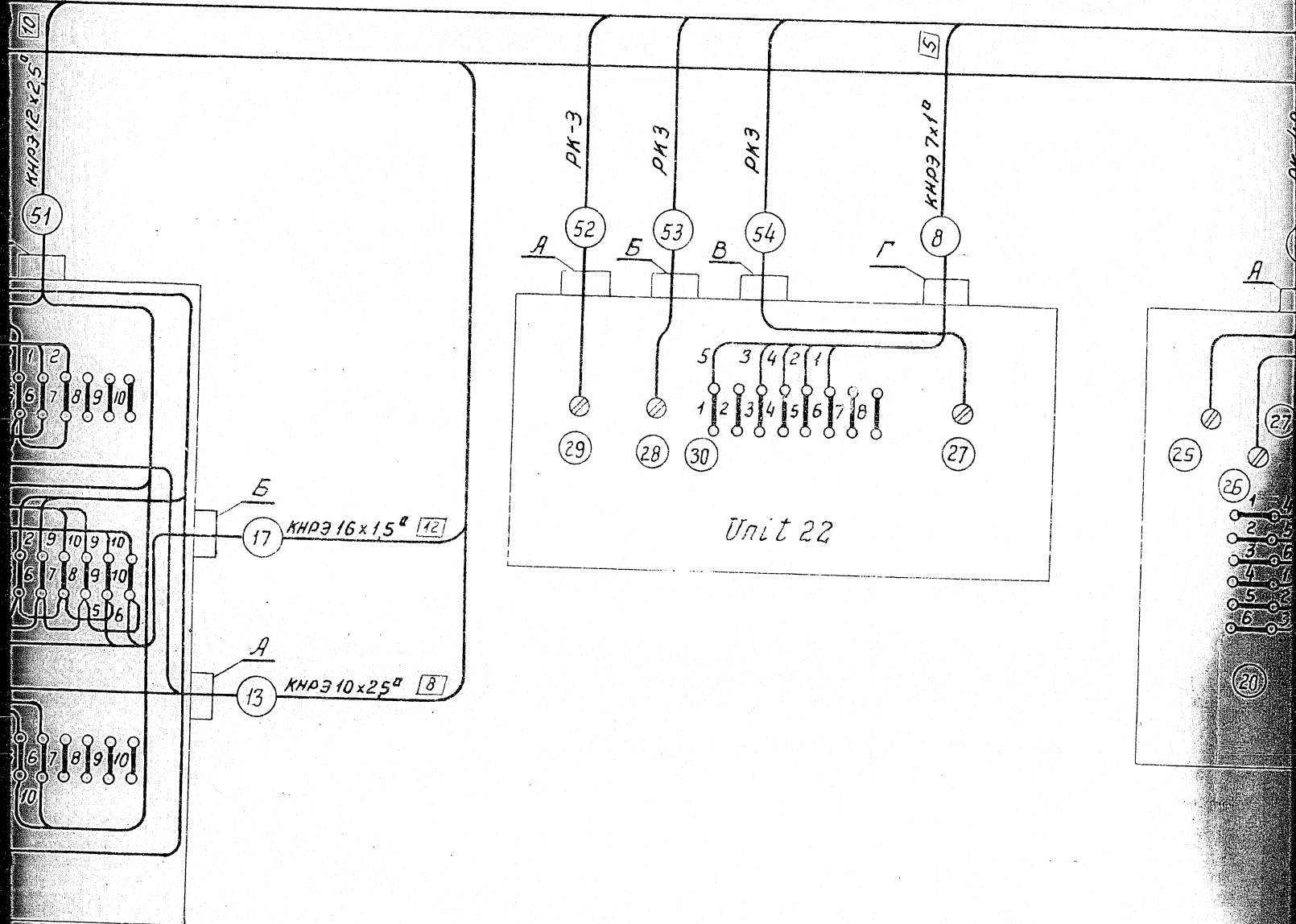
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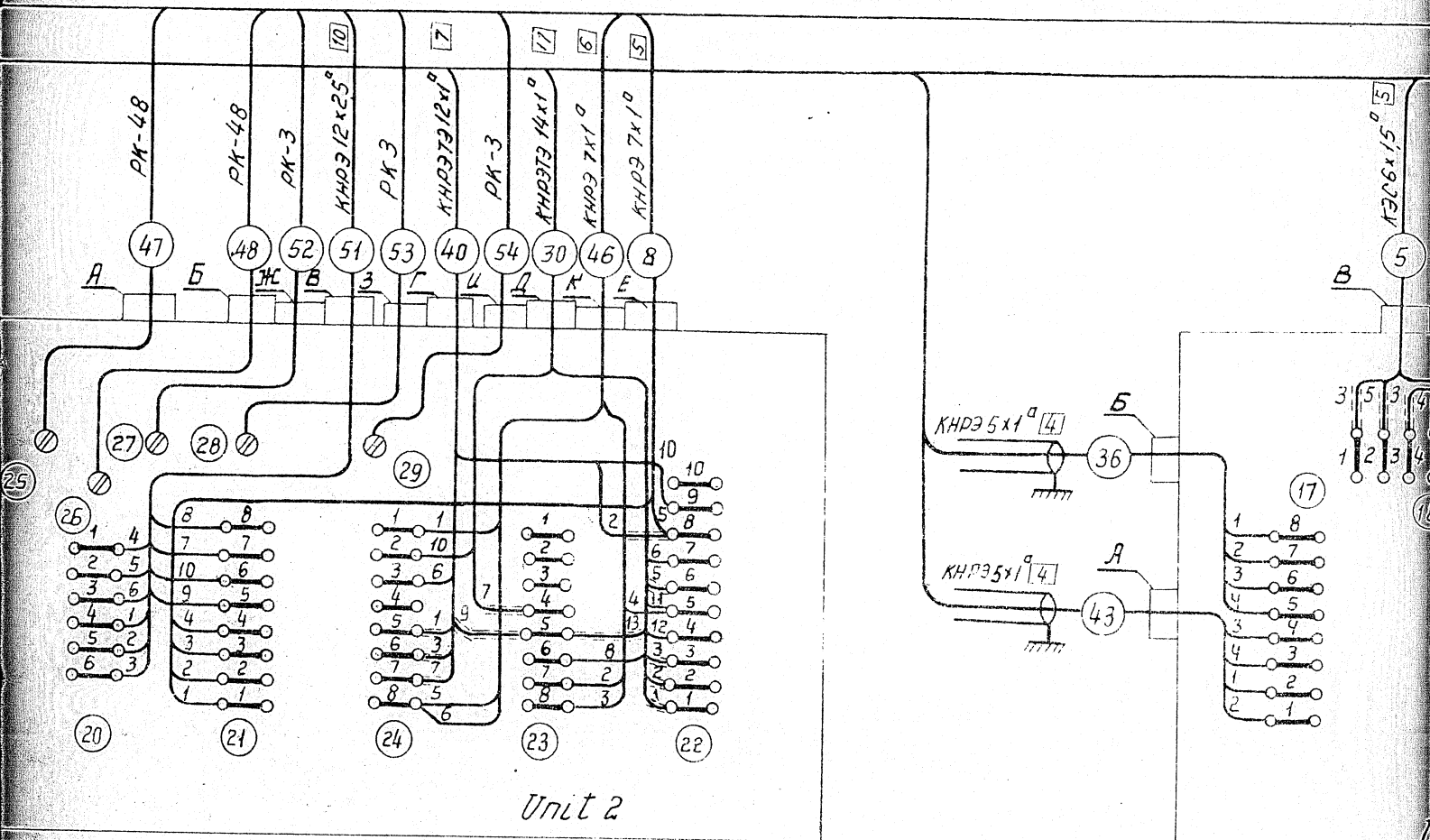
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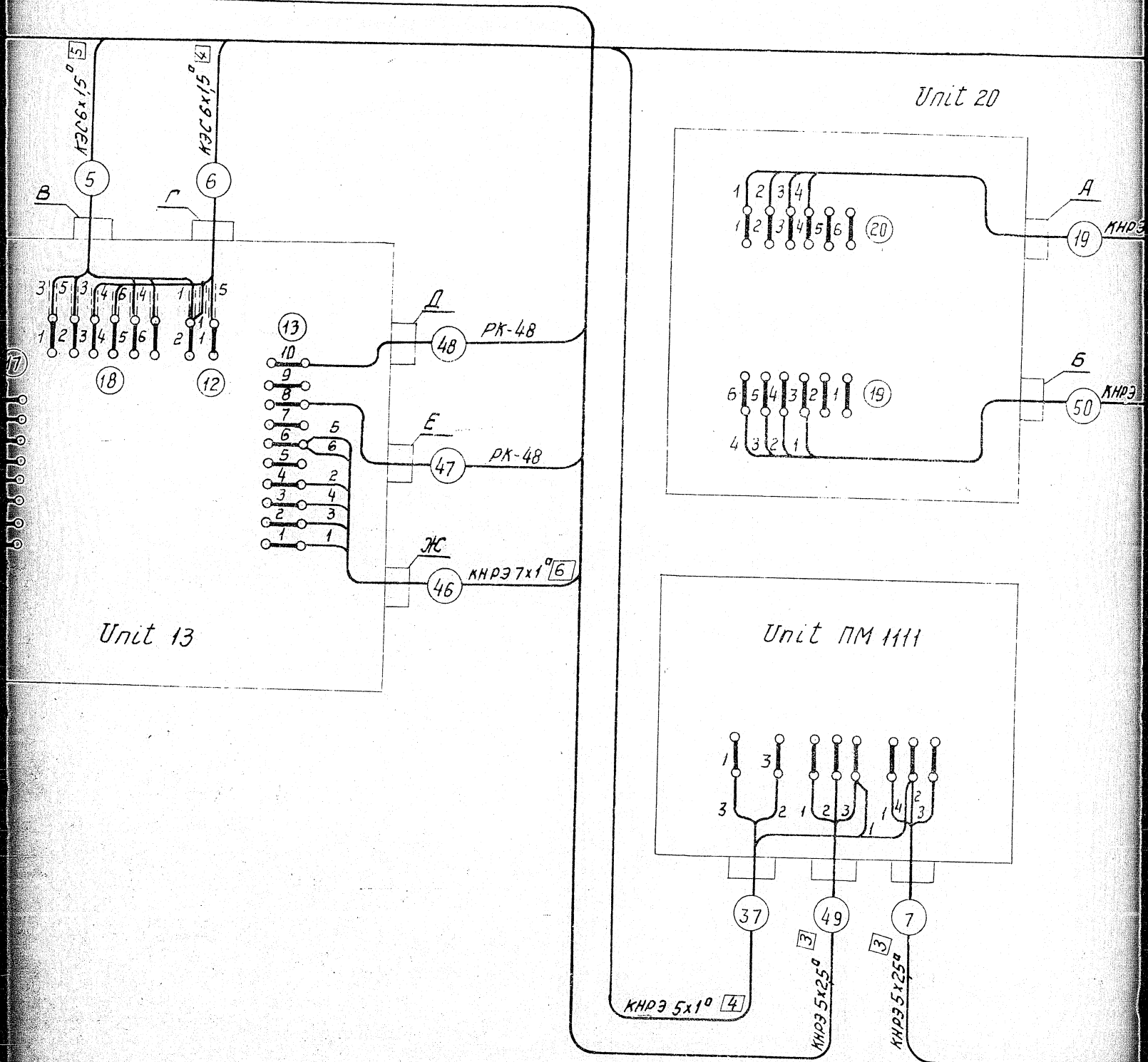


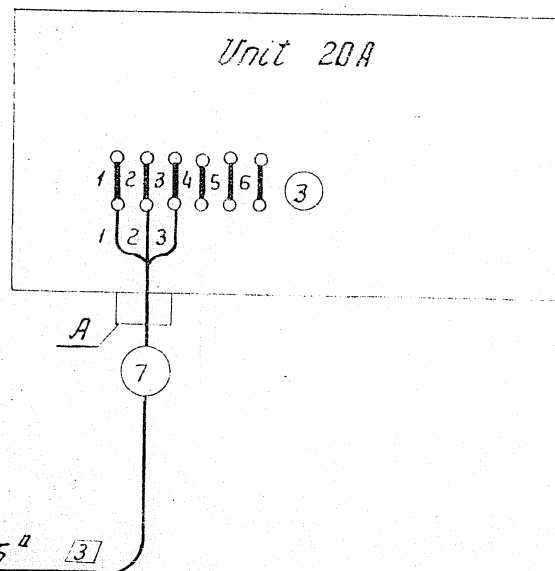
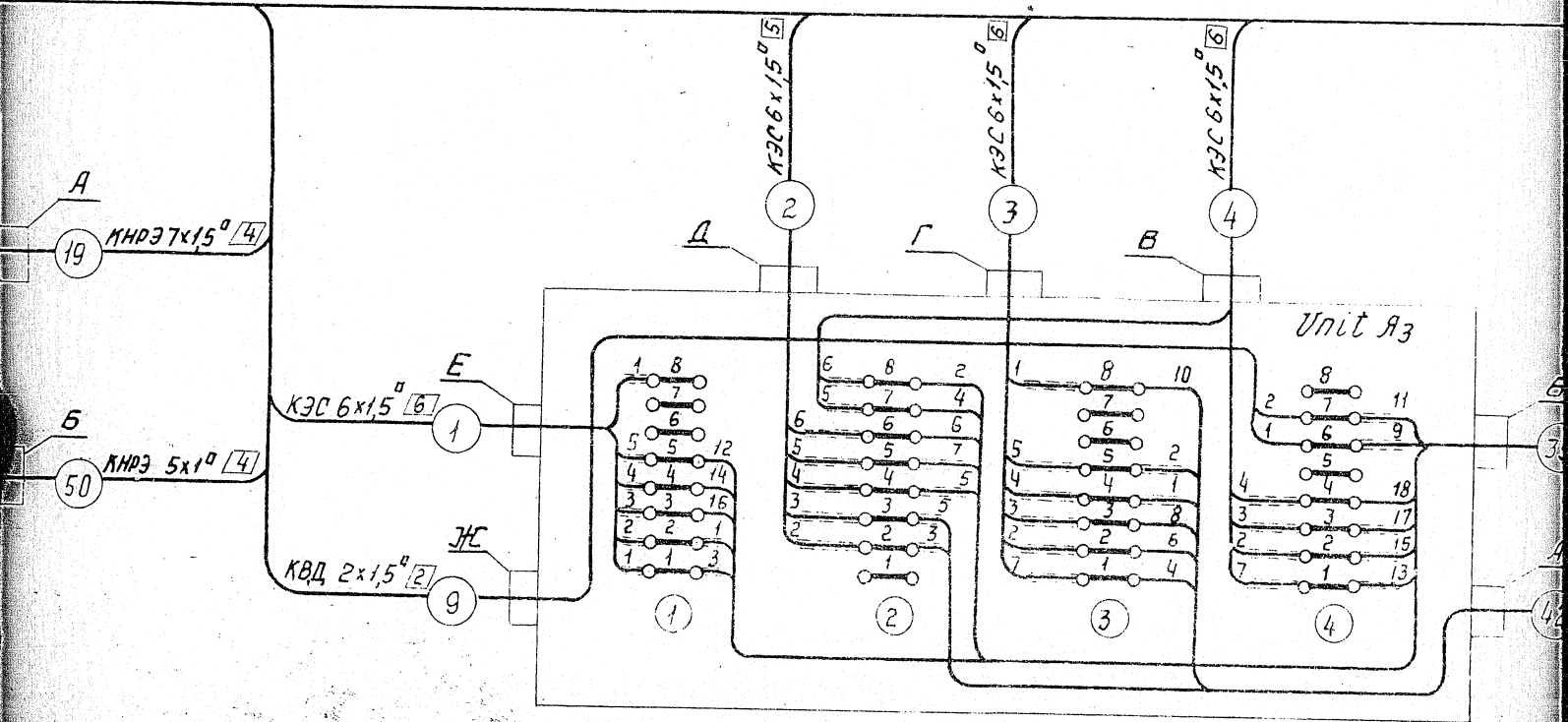
SONAR COMPARTMENT







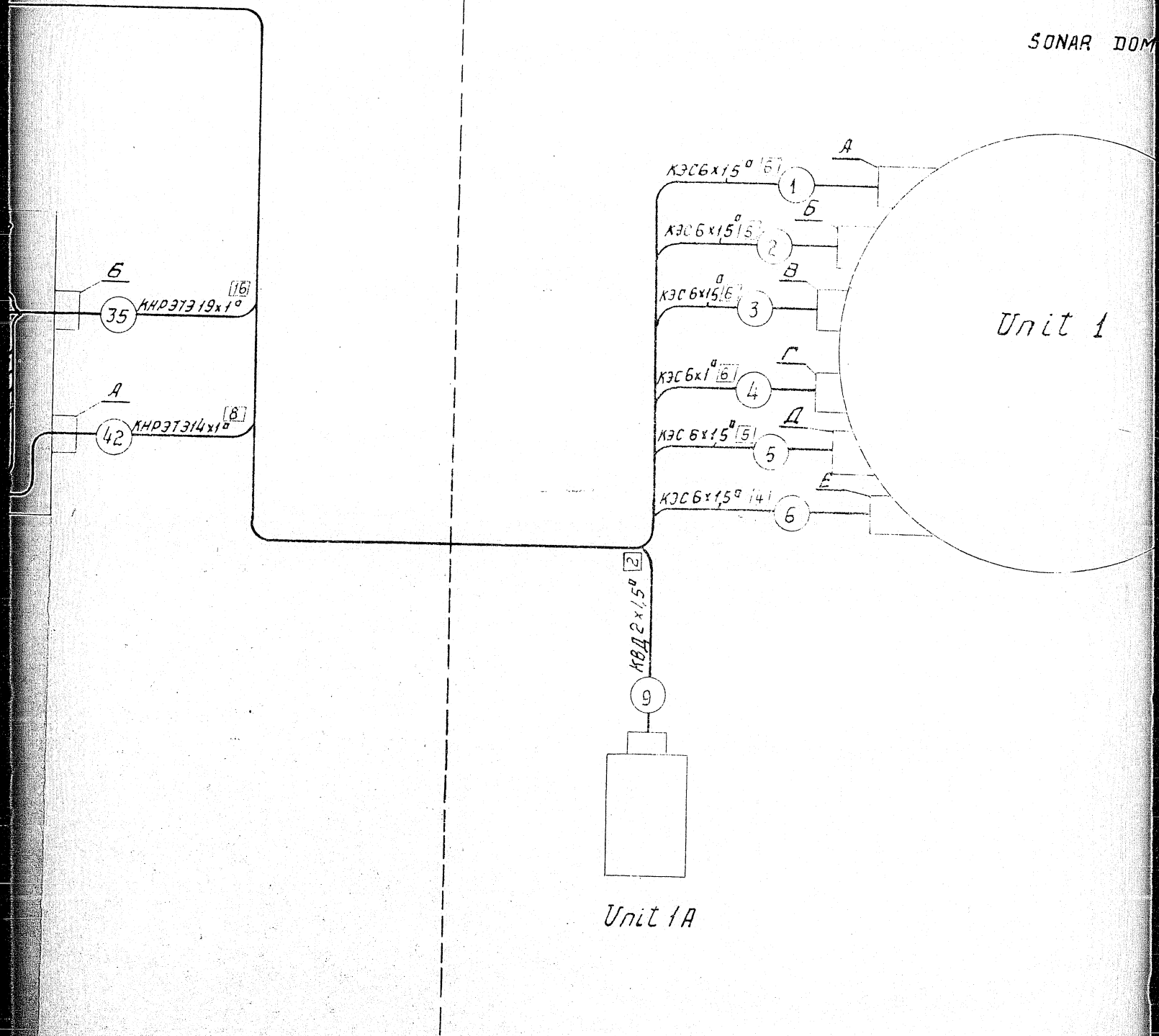




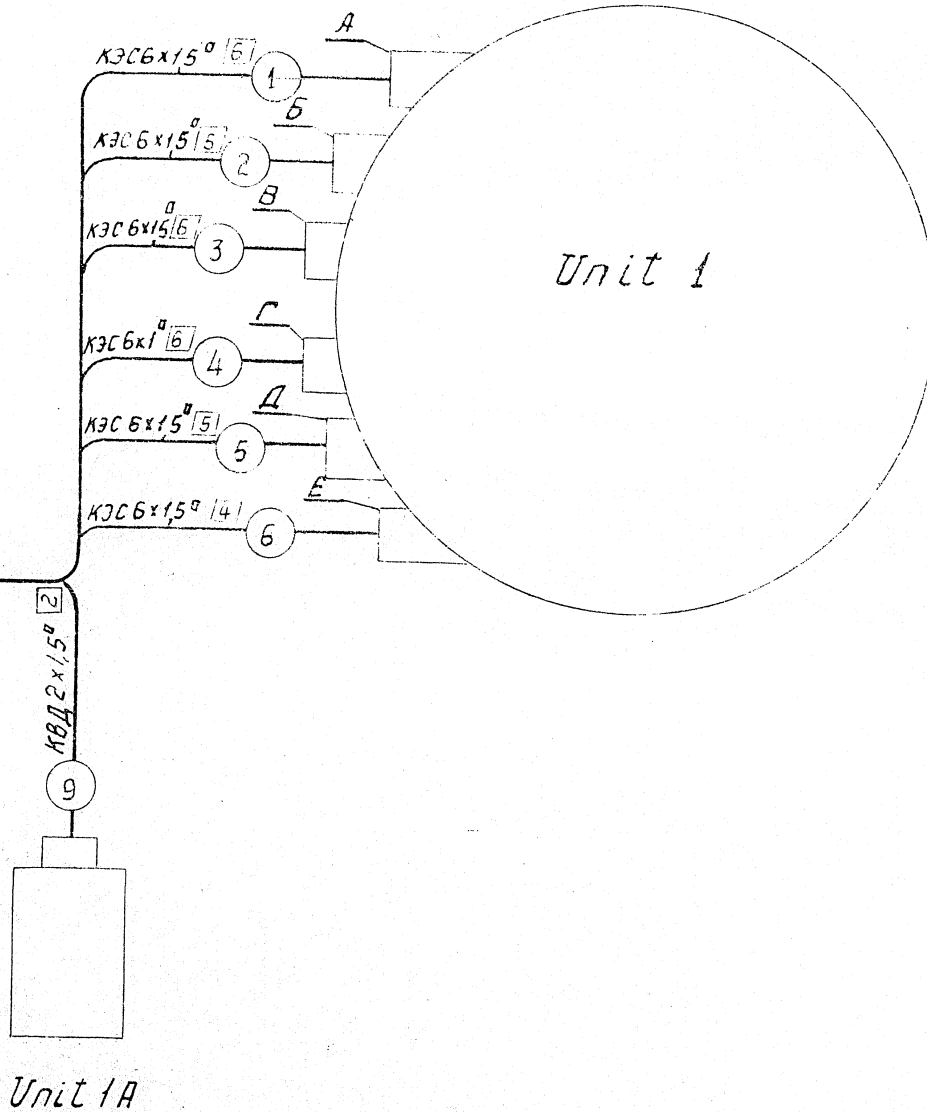
SONAR DOM

Unit 1

Unit 1A



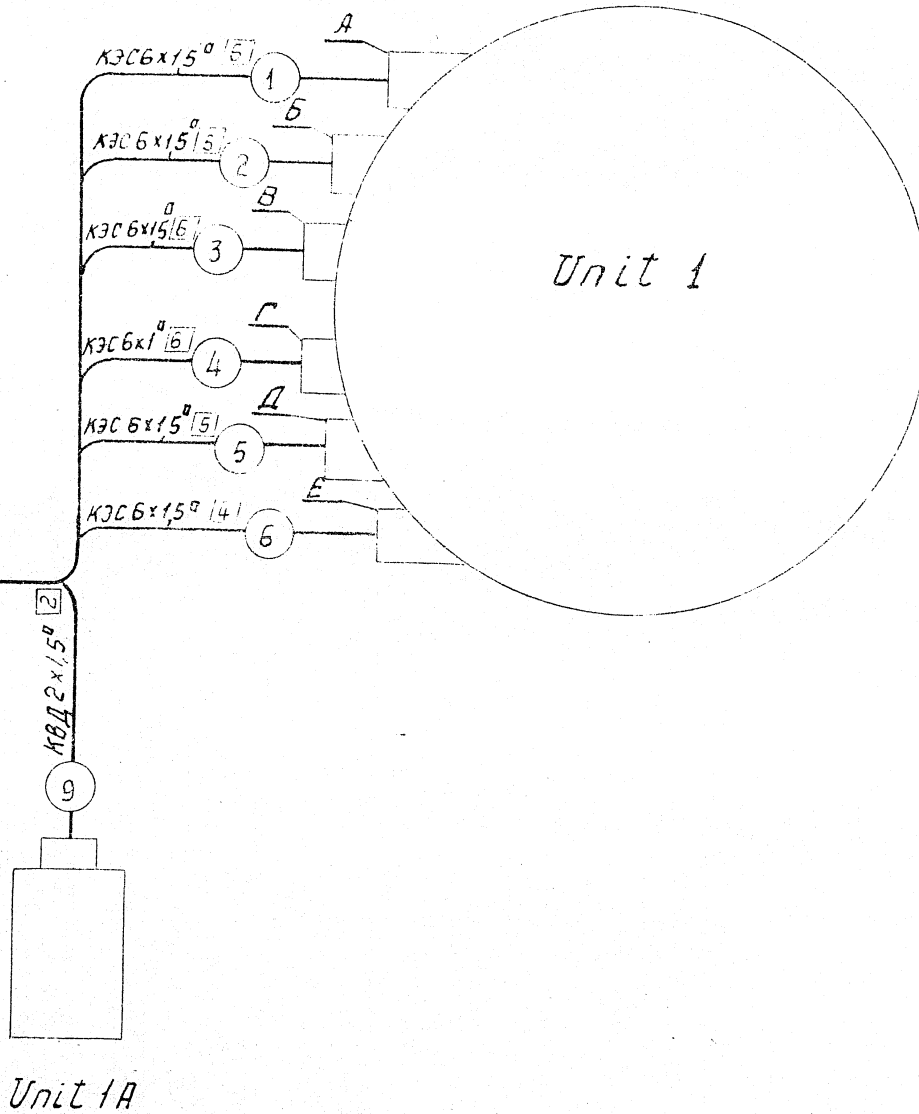
SONAR DOME



141.106046CxC

sheet 2 sheets 2

SONAR DOME

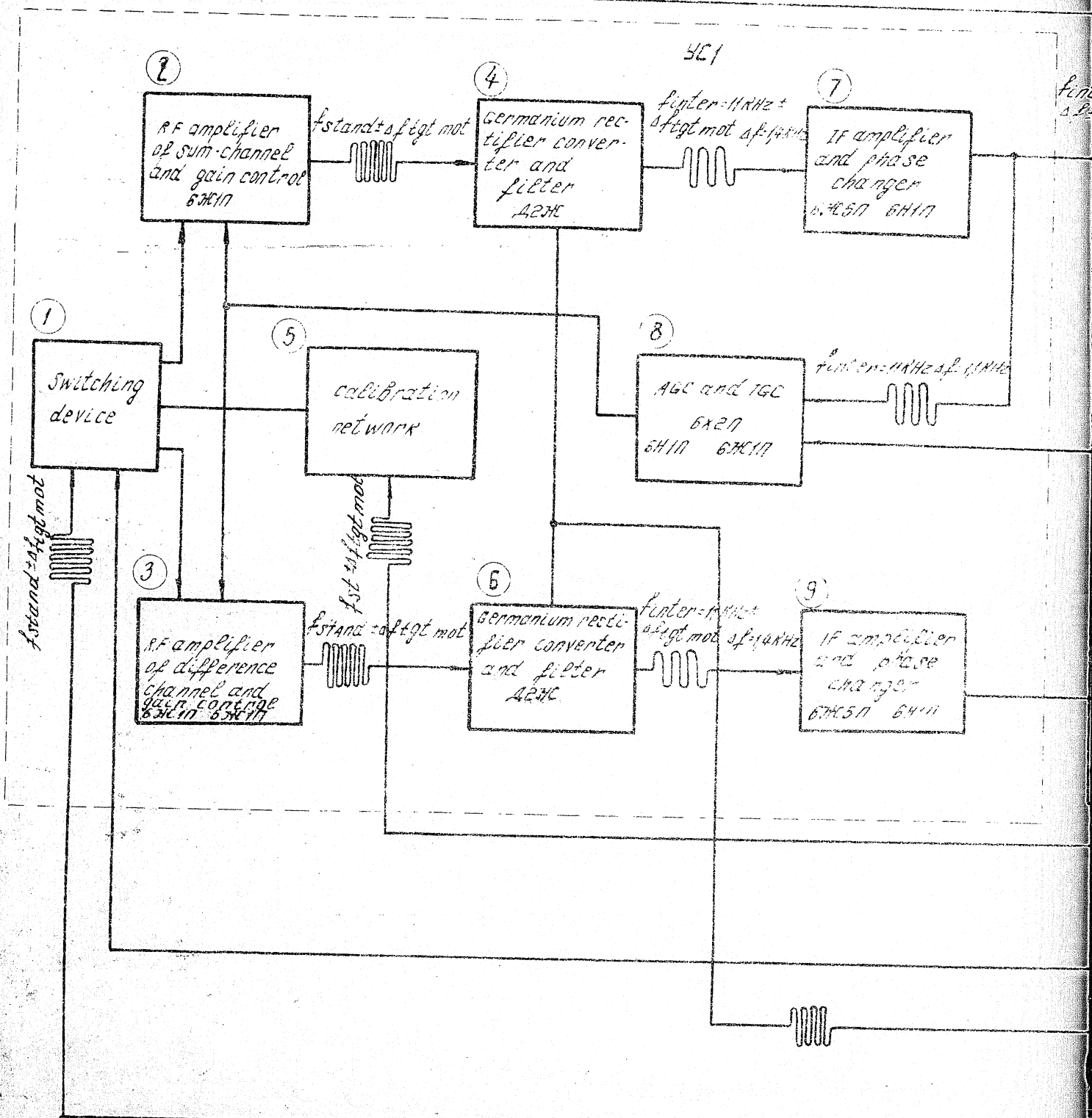


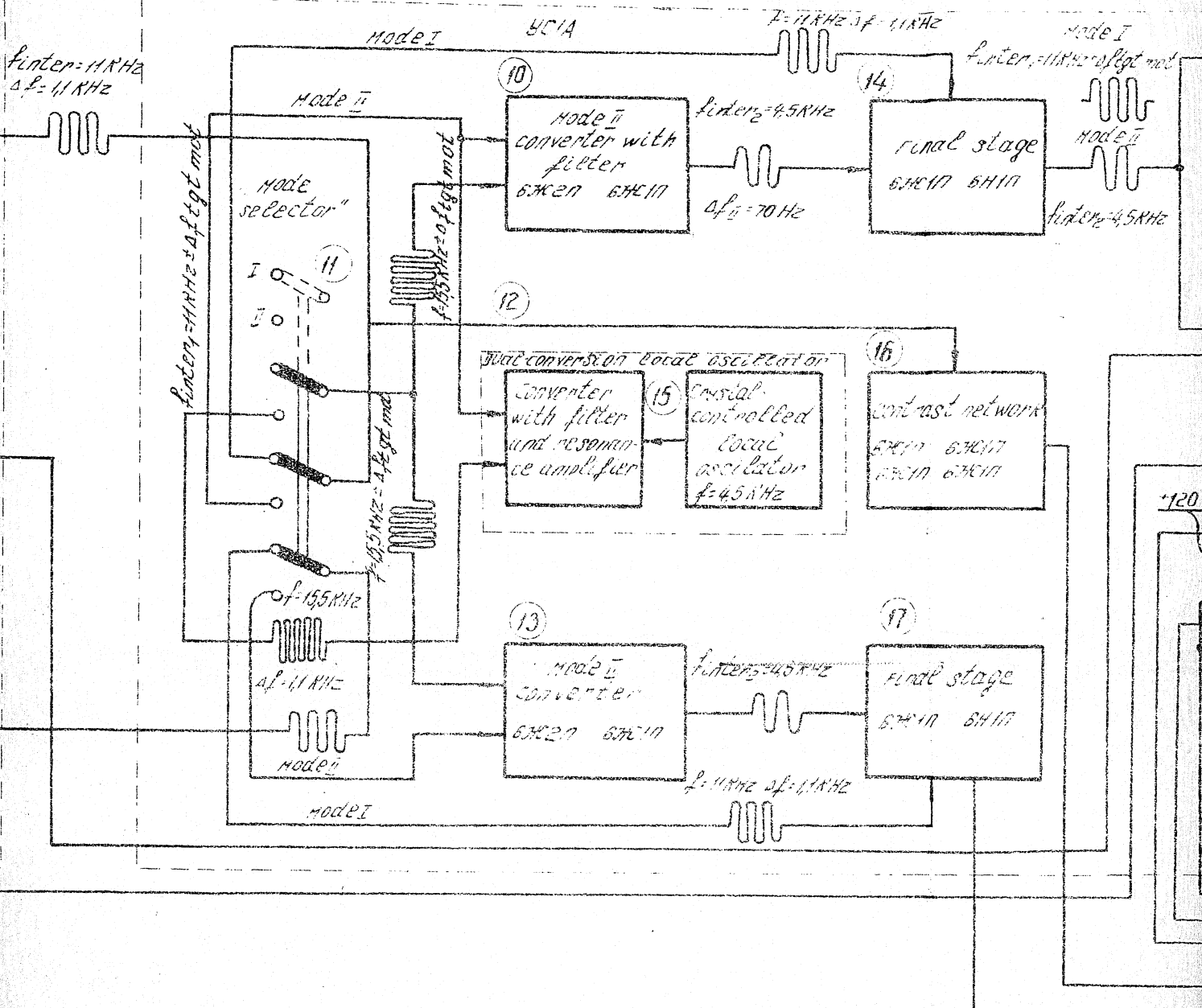
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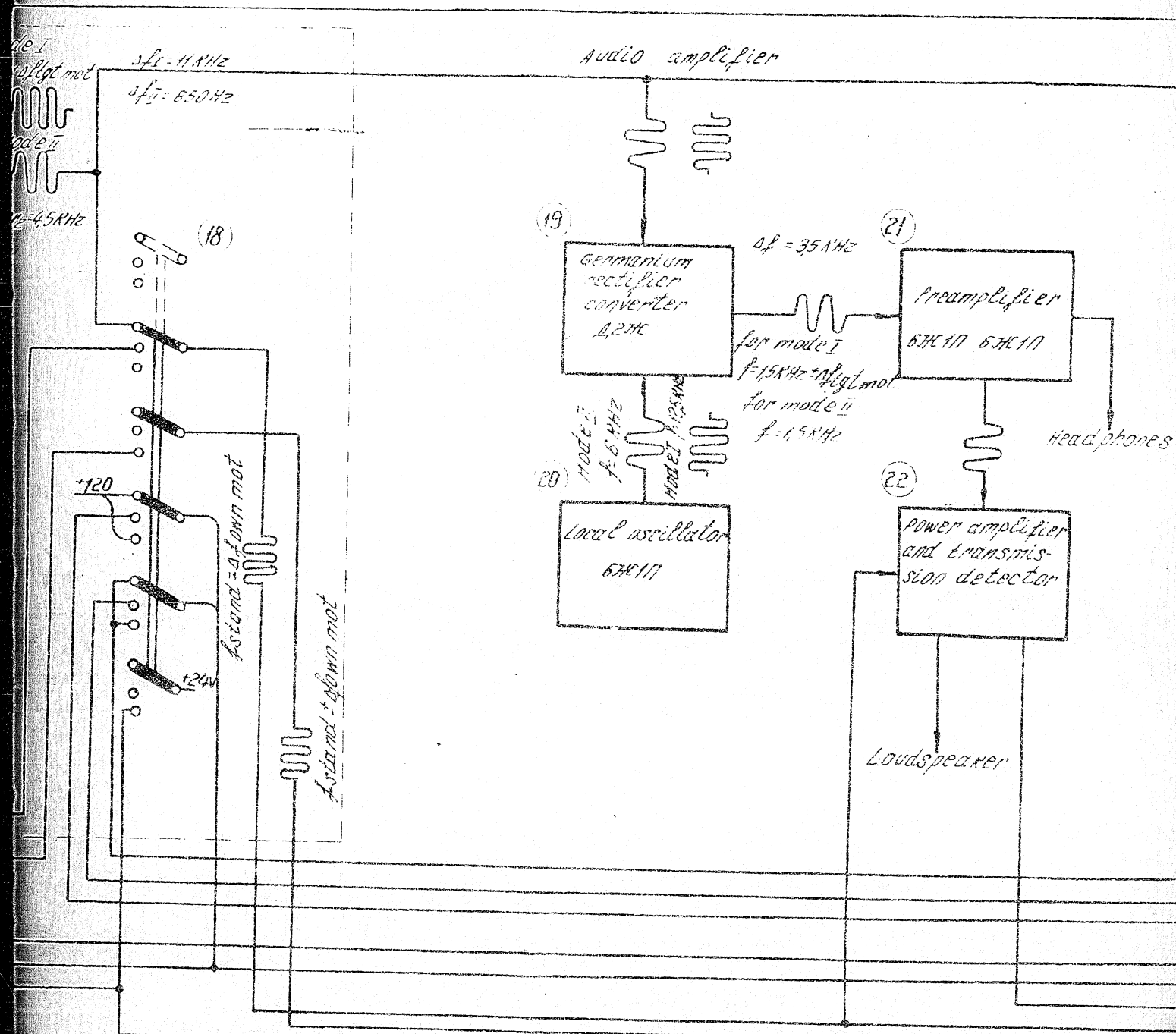
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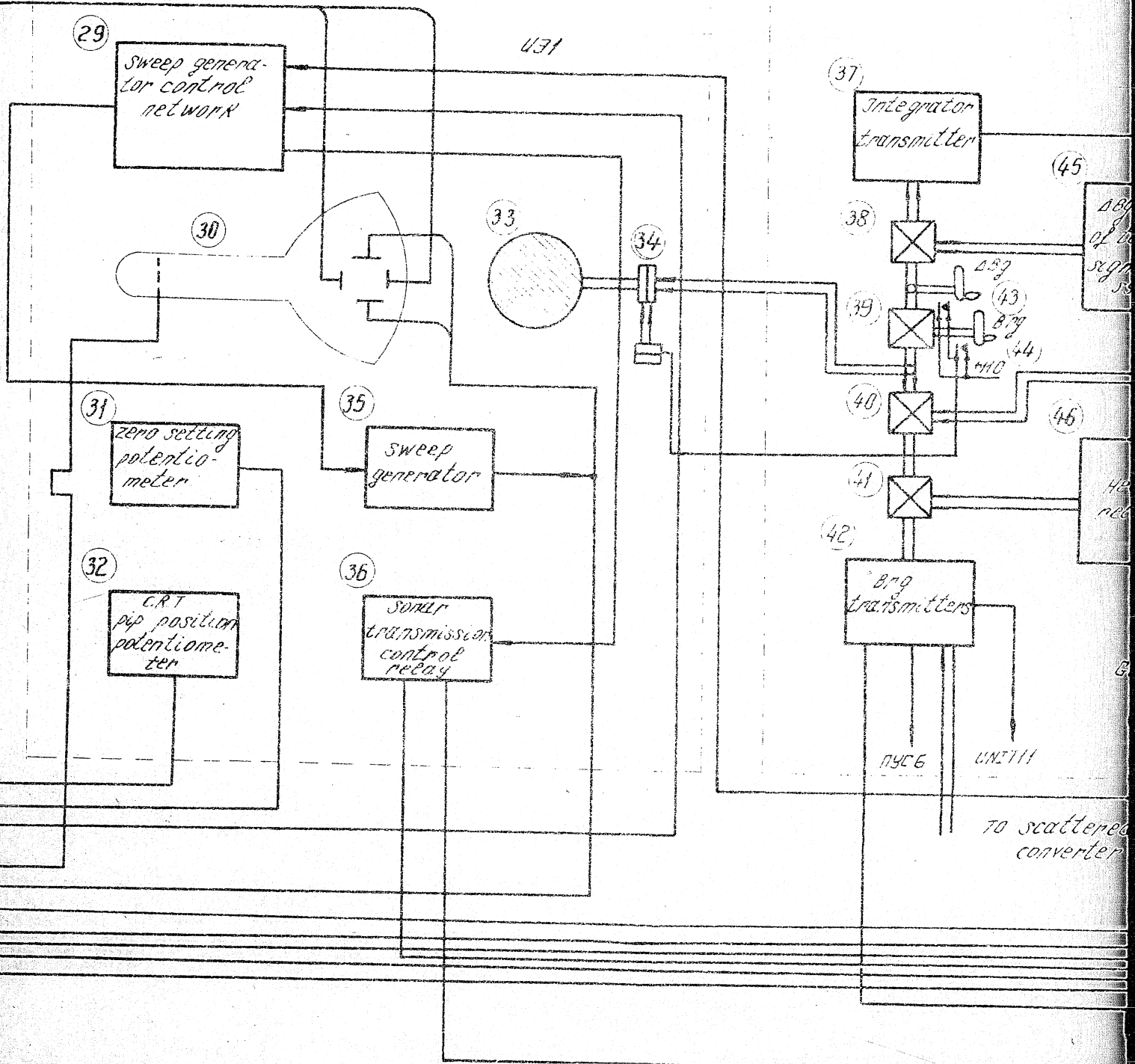
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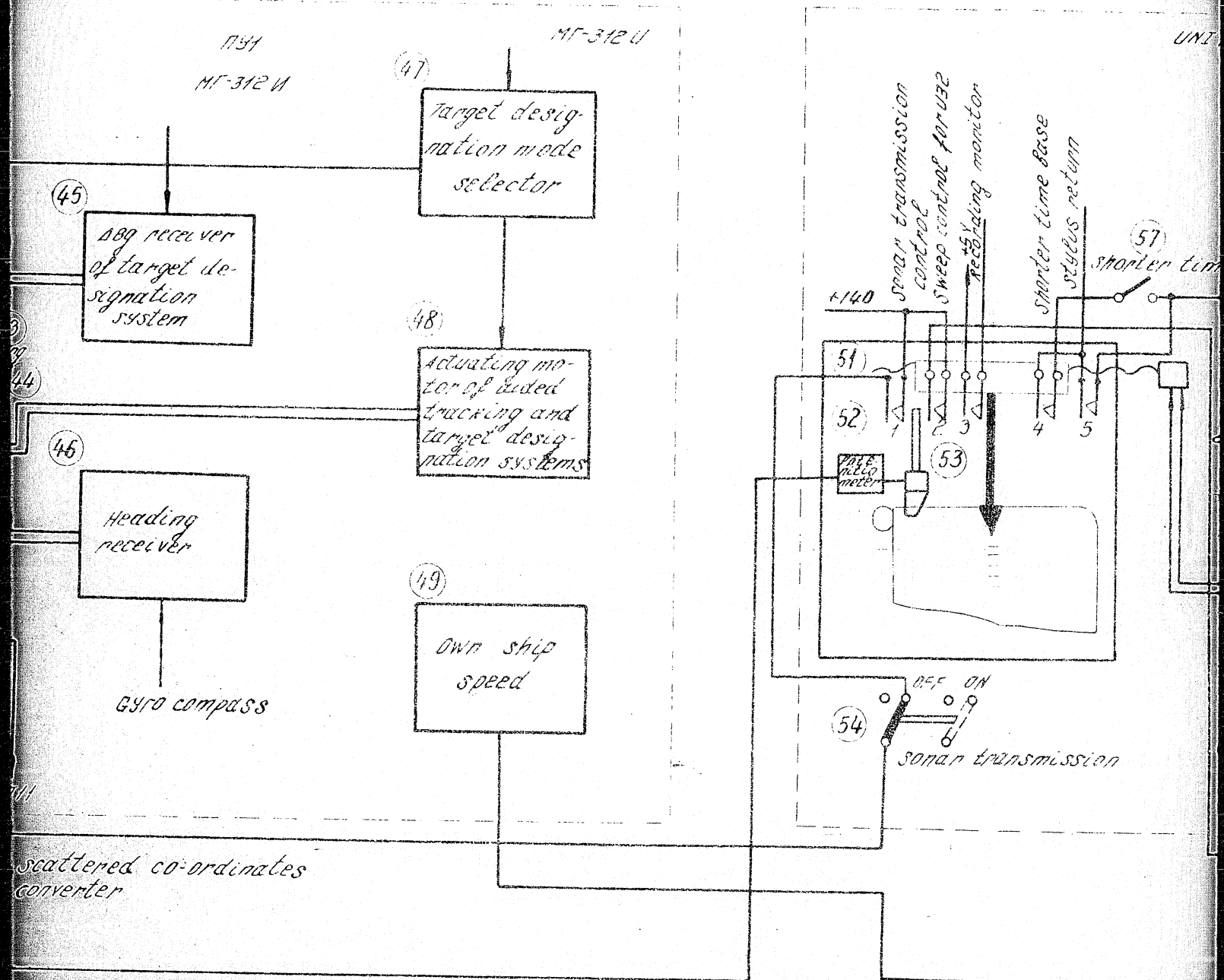
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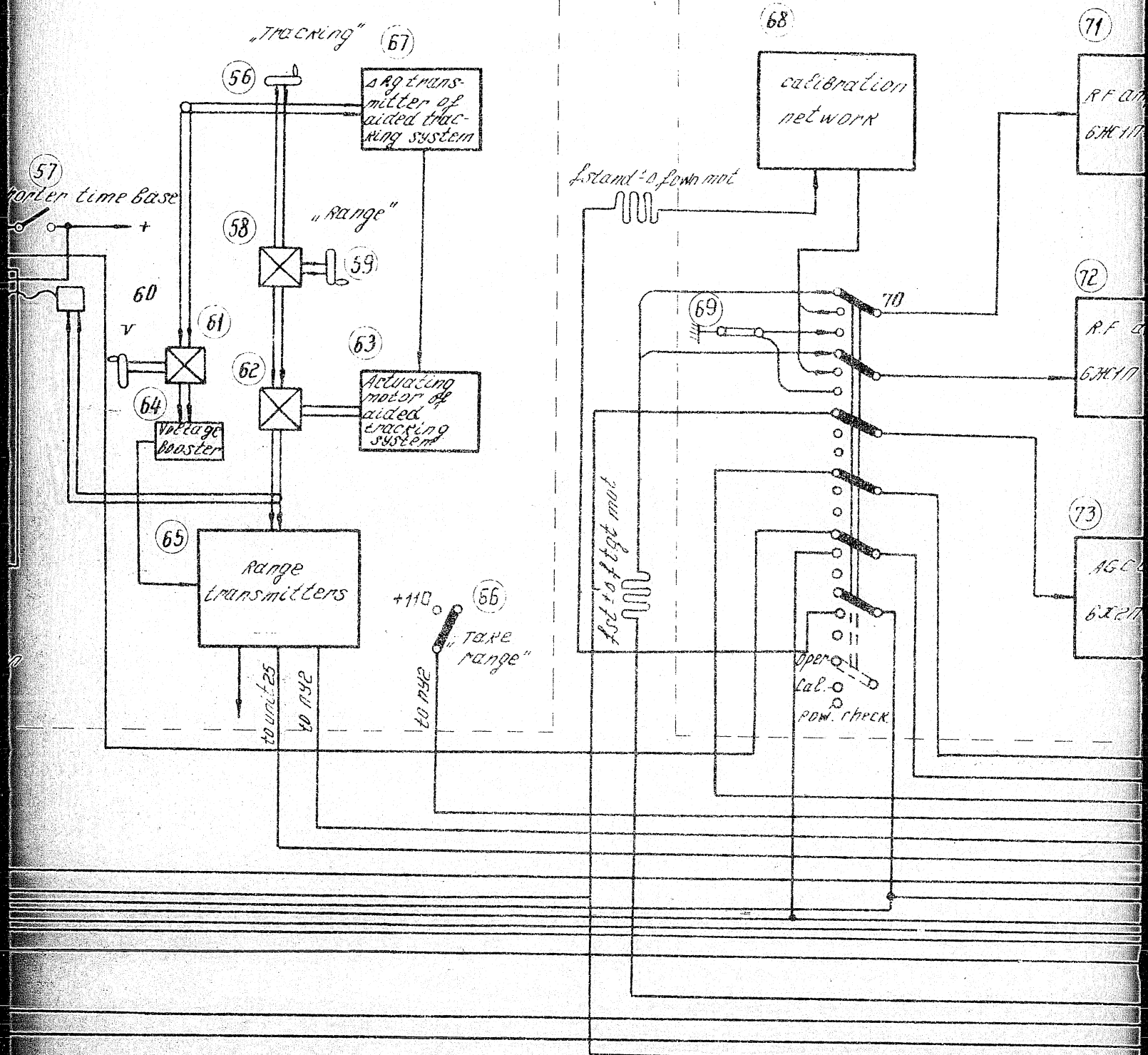


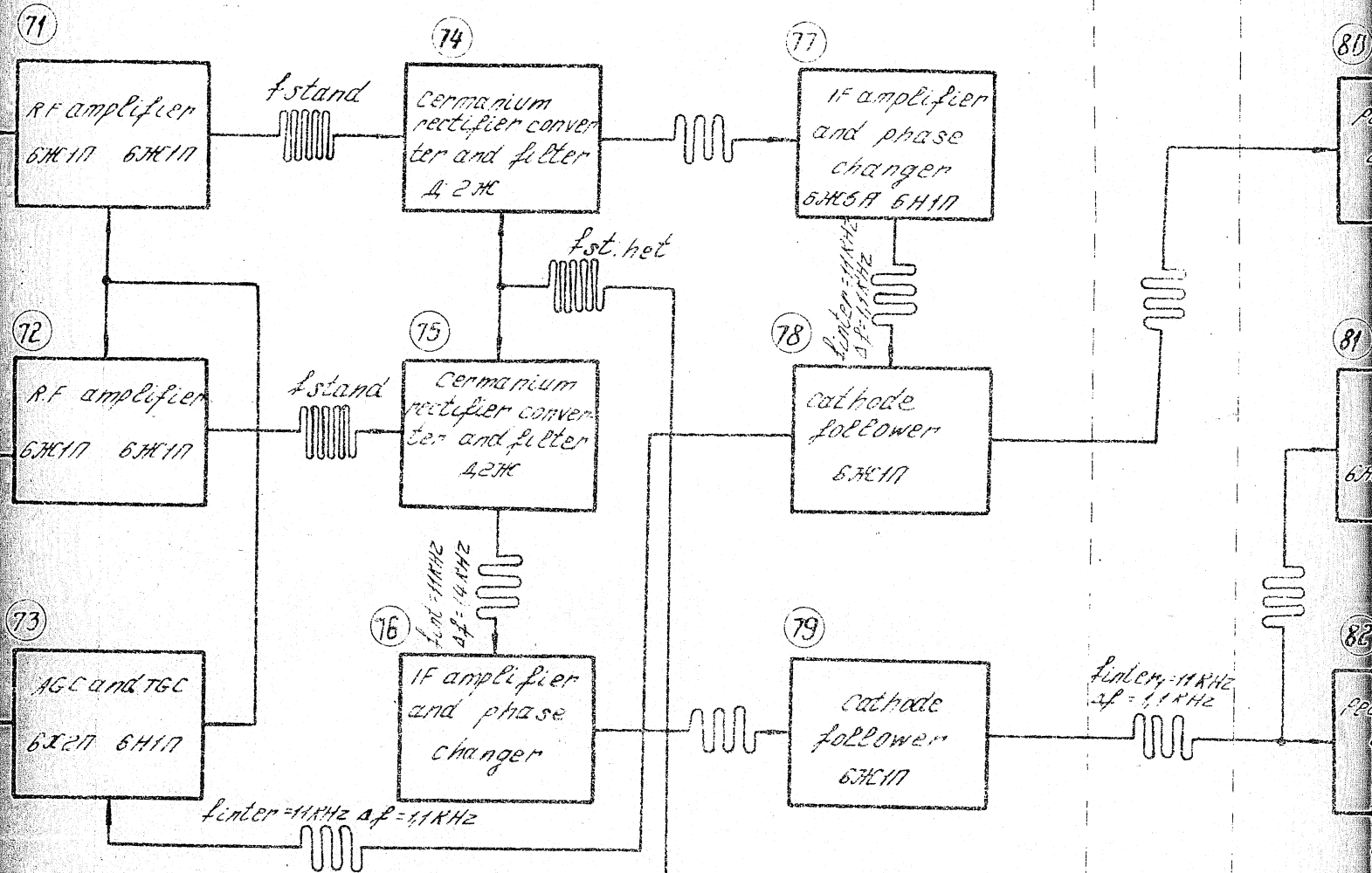






UNIT 7





4C4

(80)

peak-to-peak
limiter
6X20

$f_{\text{inter}} = 11 \text{ KHz}$
 $\Delta f = 11 \text{ KHz}$

(83)

IF amplifier
6X17 6N17

(81)

contrast
network
6X17 6N17

(84)

Phase sensitive
detector

(82)

peak-to-peak
limiter
6X20

$f_{\text{inter}} = 11 \text{ KHz}$
 $\Delta f = 11 \text{ KHz}$

(85)

IF amplifier
6X17 6N17

(86)

from U31
from
UNIT 7

(87)

TIME BASE

(88)

sweep gene-
tor control
network

Time base length sel

4C4

(80)

Peak-to-peak
limiter
6X20

$f_{inter} = 11 \text{ KHZ}$
 $\Delta f = 11 \text{ KHZ}$

(83)

IF amplifier
6X410 6N10

(81)

Contrast
network
6X410 6N10

(84)

Phase sensitive
detector

(82)

Peak-to-peak
limiter
6X20

$f_{inter} = 11 \text{ KHZ}$
 $\Delta f = 11 \text{ KHZ}$

(85)

IF amplifier
6X410 6N10

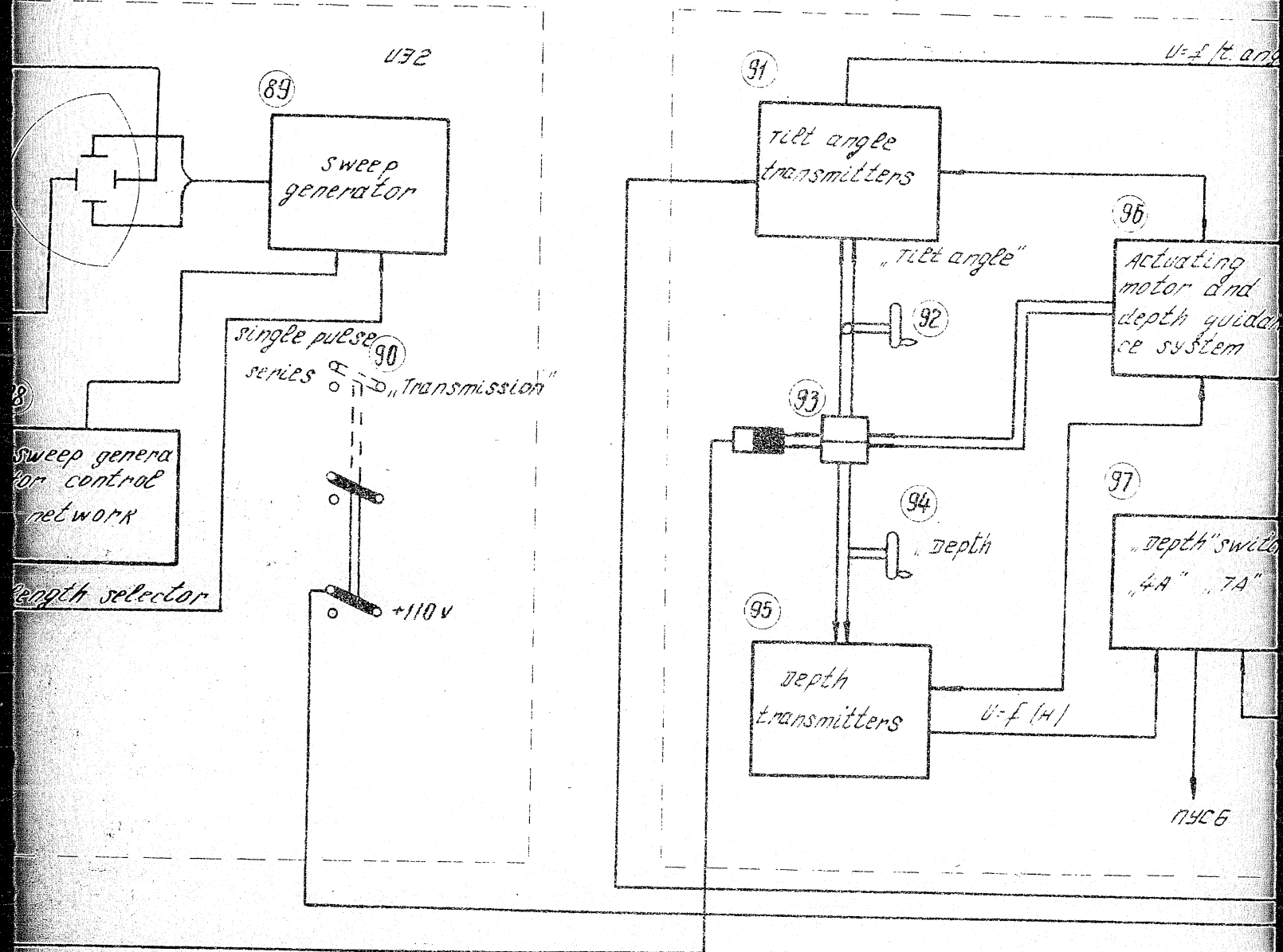
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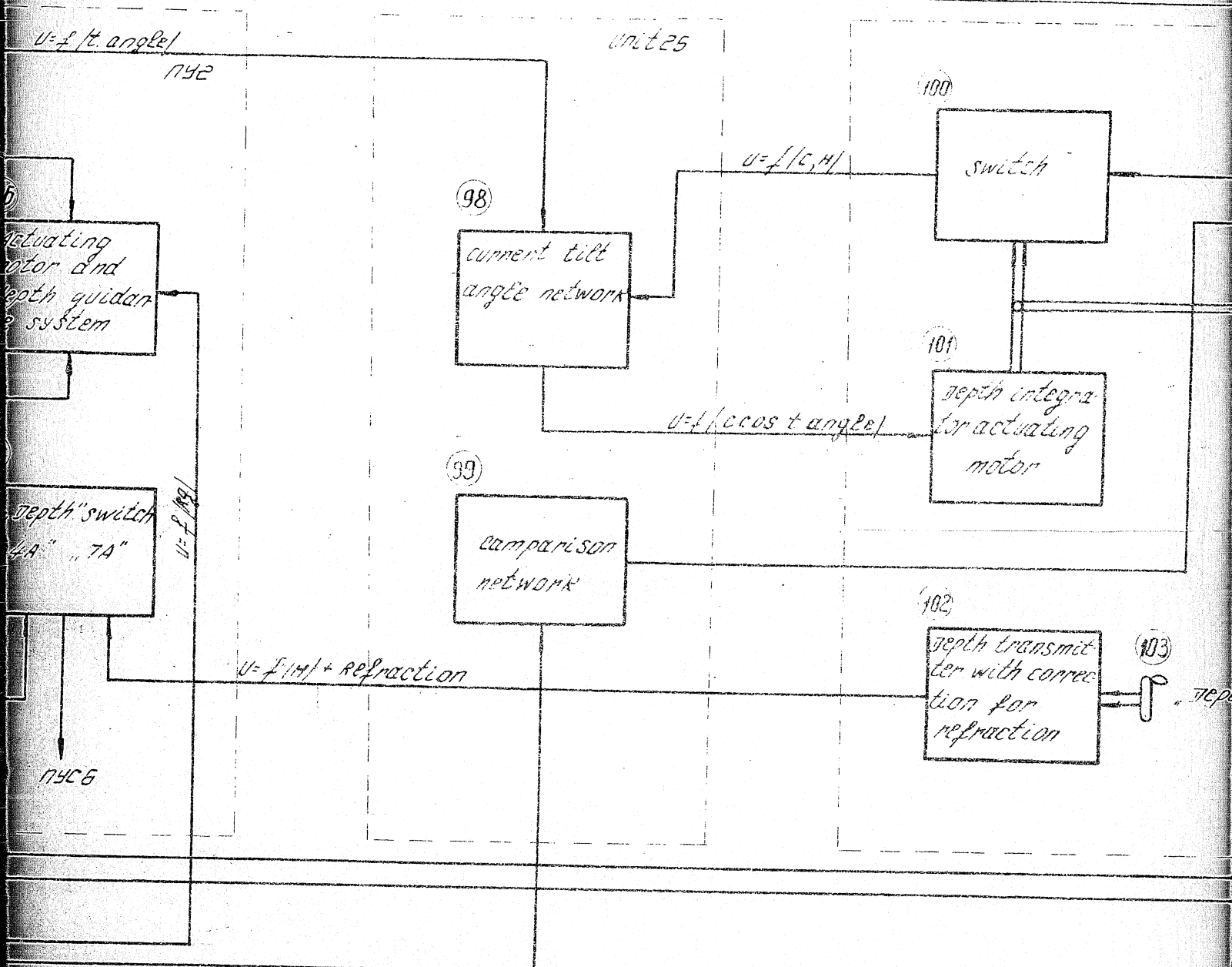
from U31 (87)
from
UNIT 7

Time base (88)

Sweep gener-
ator control
network

Time base length select





Unit 7A

$U = f(10, H)$

(104)

Paper transport

(103)

"Depth"

Unit 18

(105)

transmitter of
sound veloci-
ty at various
sea depths

$t = f(14)$

(106)

(108)

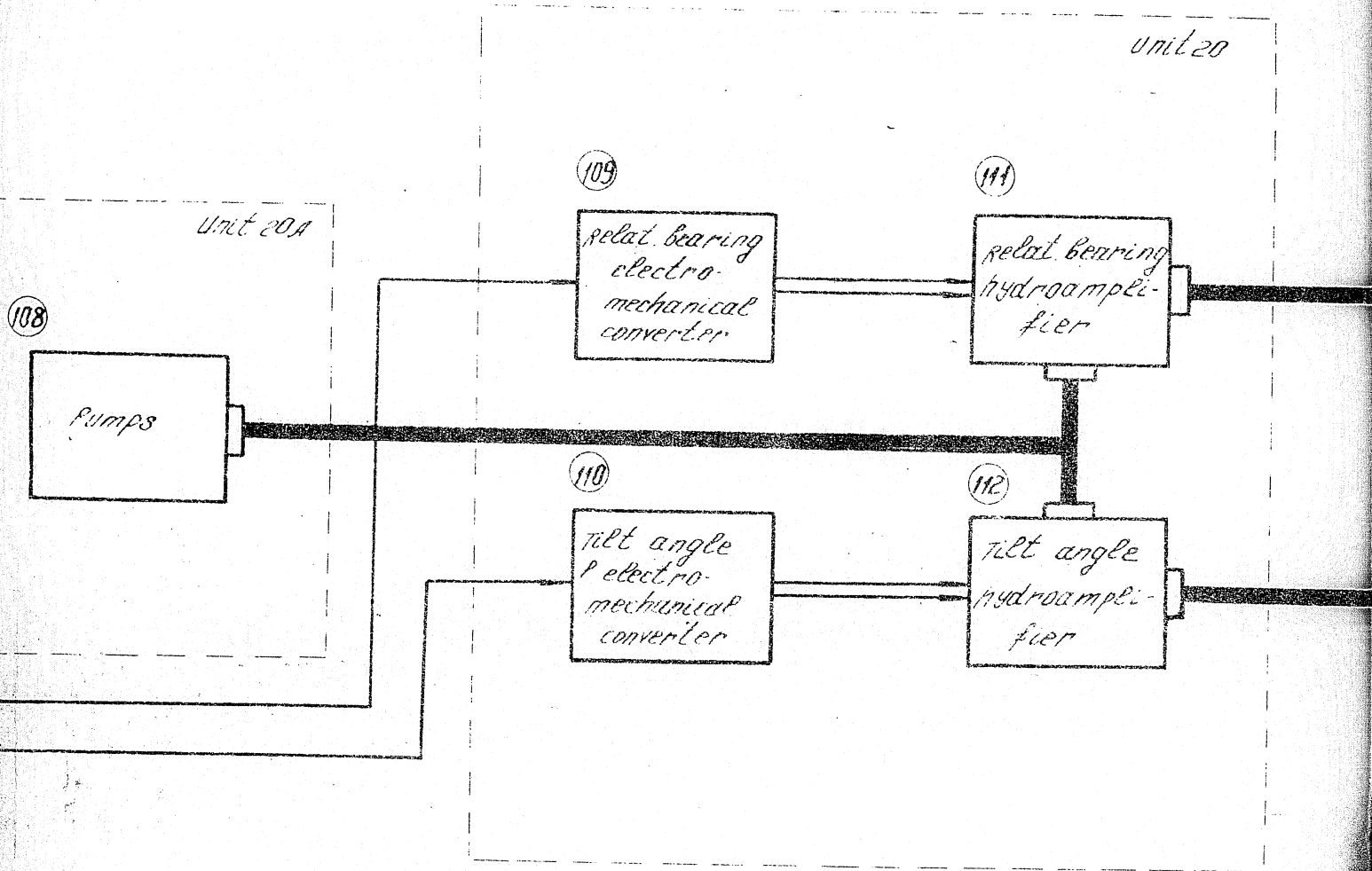
Pump

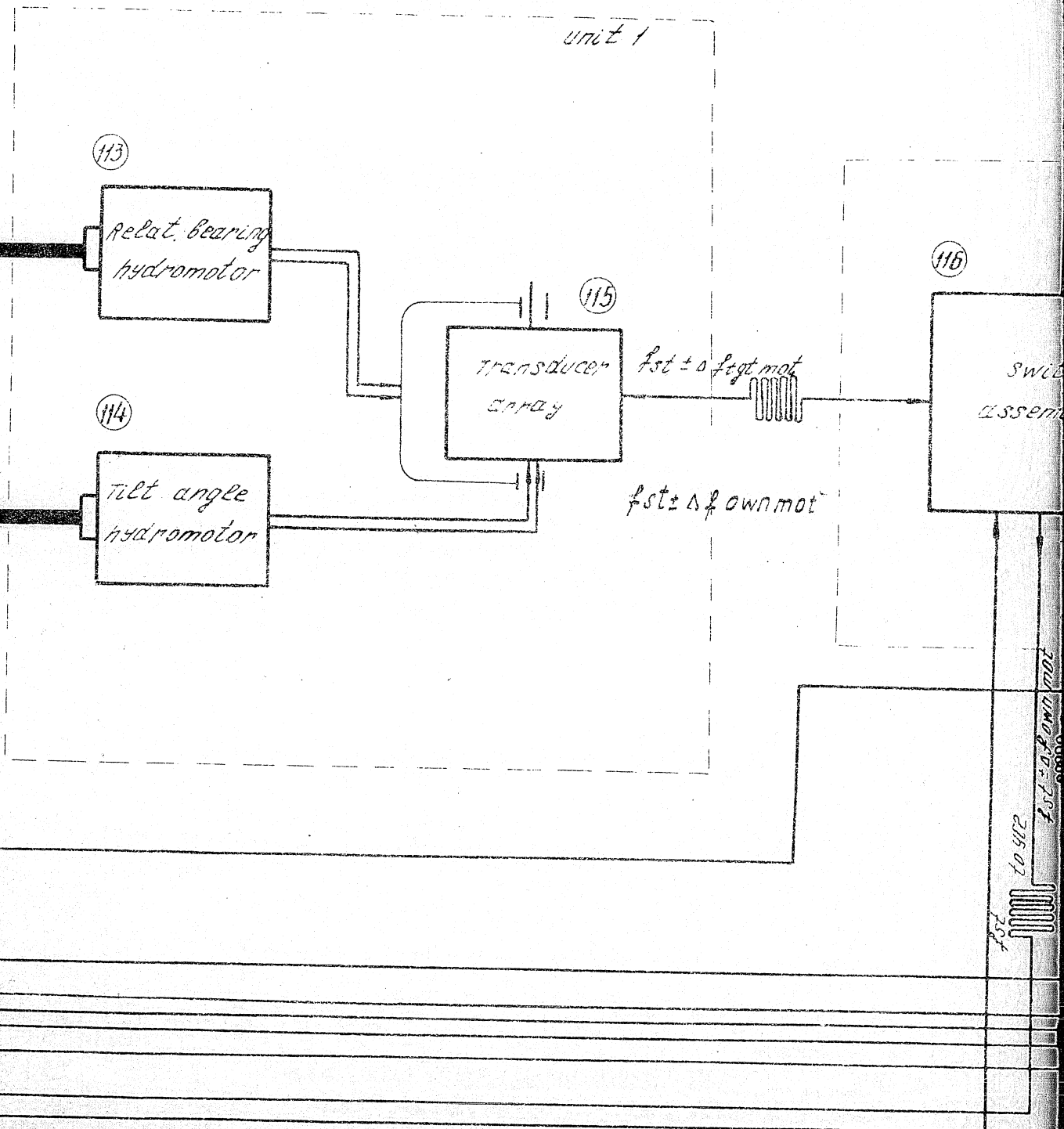
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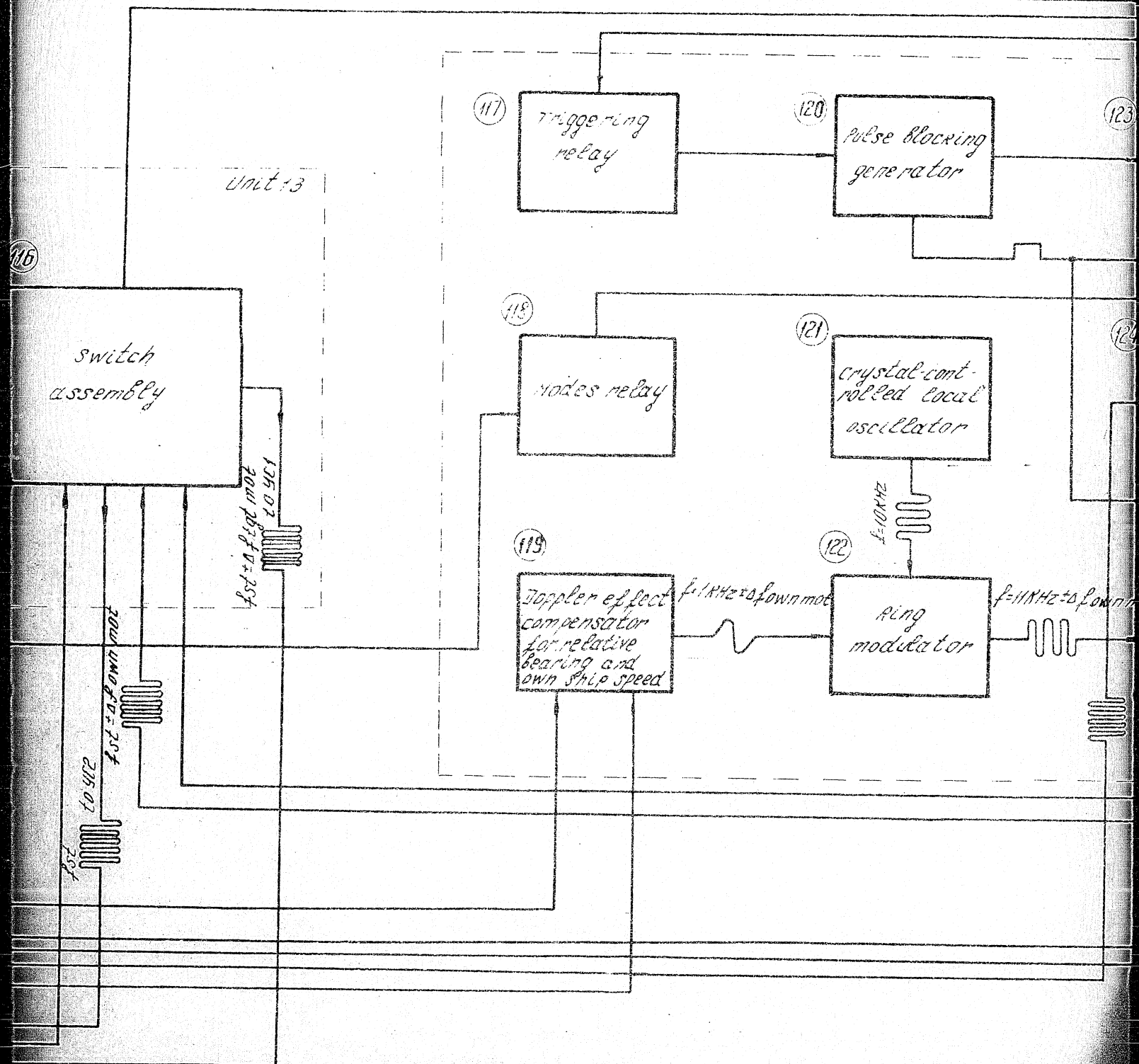
Scattered
coordinates
converter

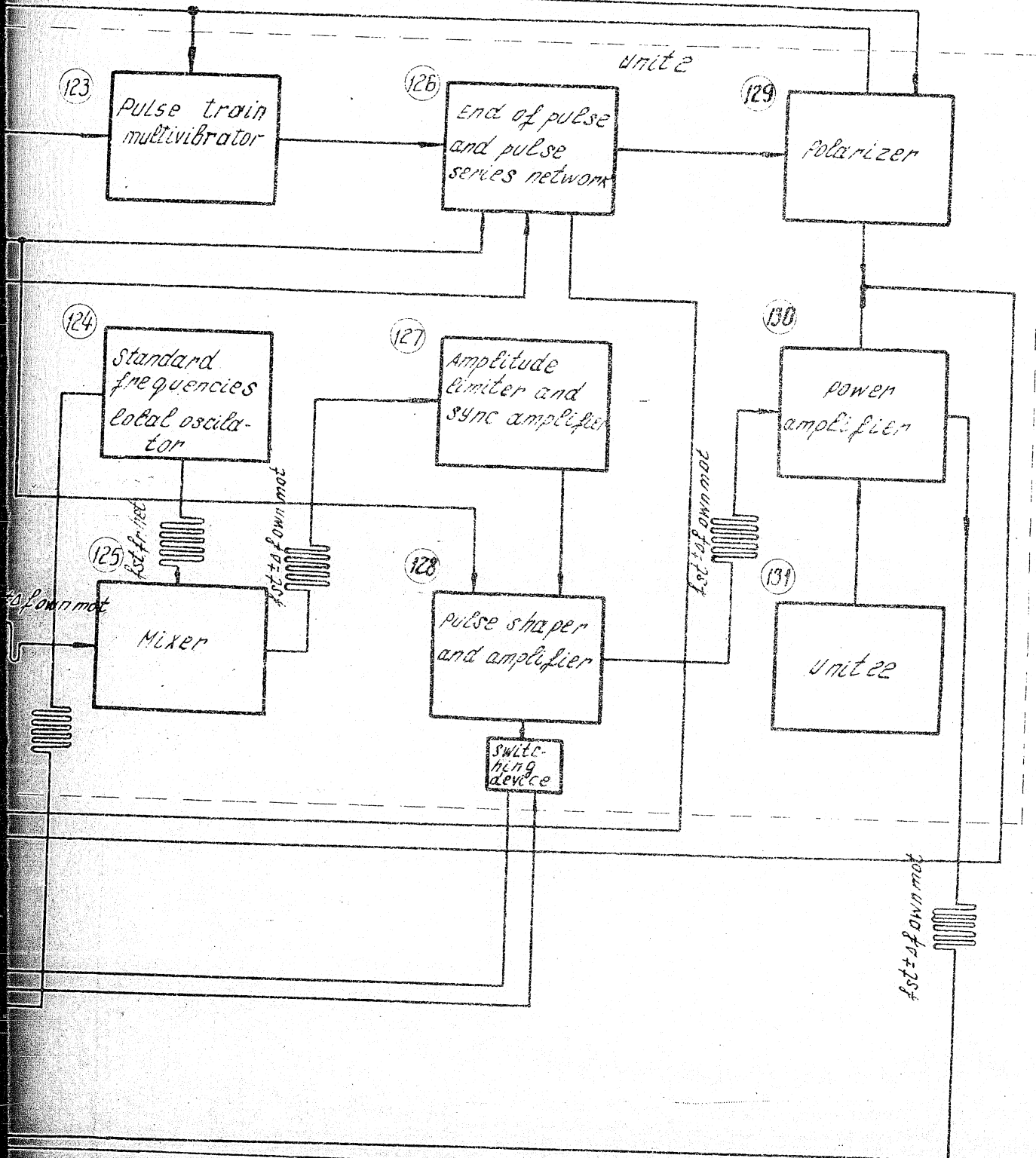
TO 1151

vertical gyro









"MT-311"
Functional
diagram

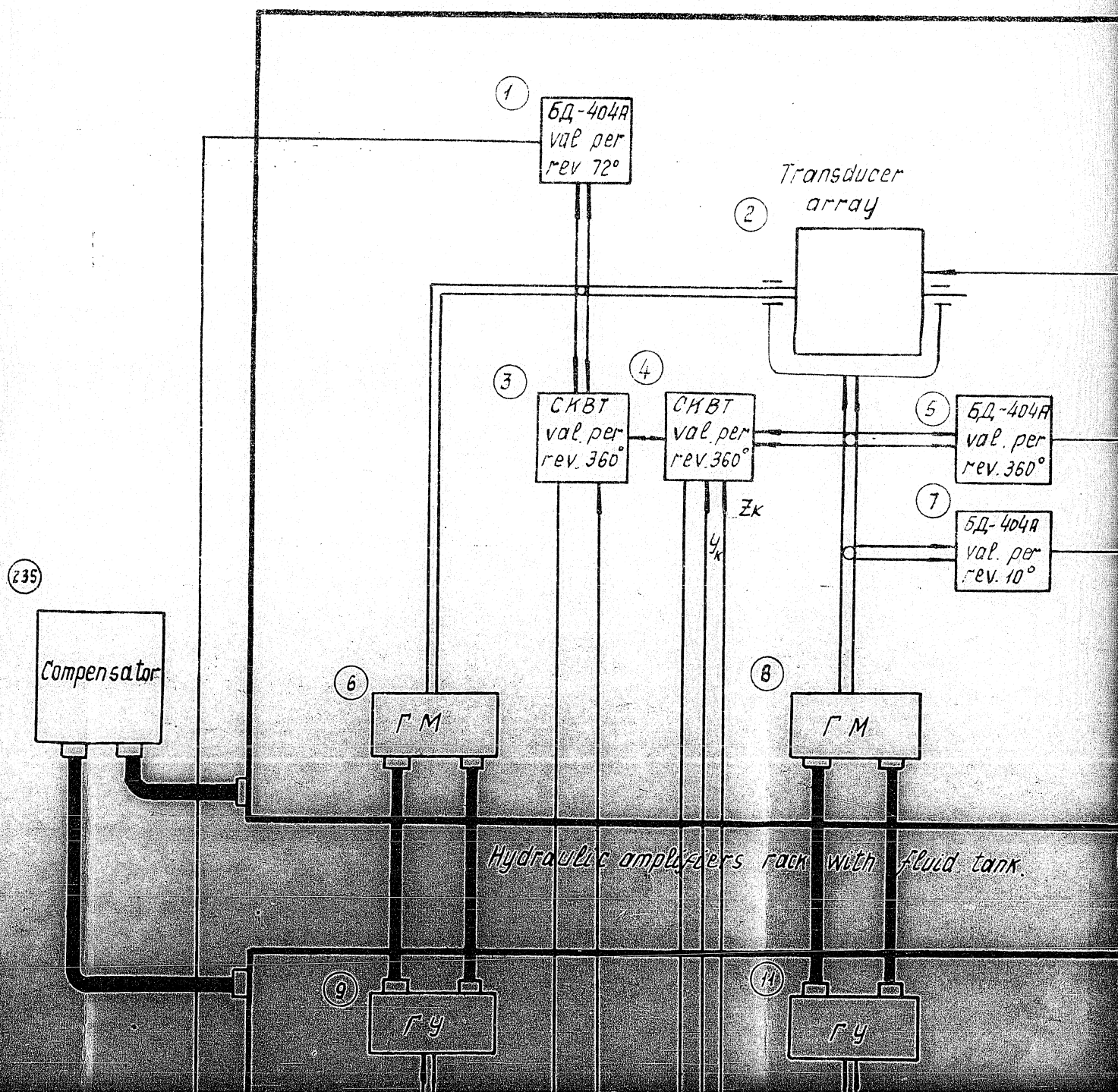
141.106.046Exp

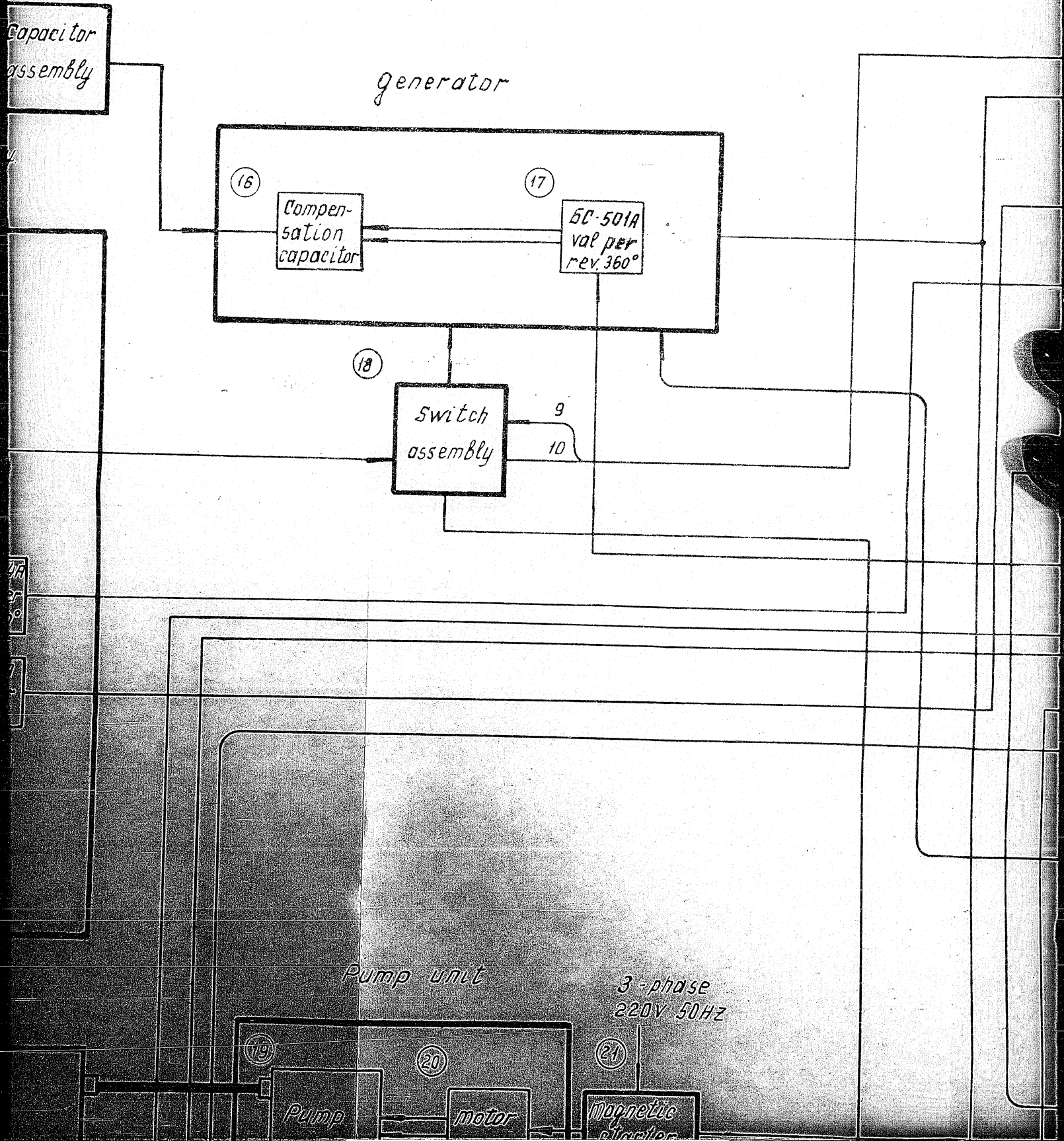
Sheet 1	Sheet 1
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STAT

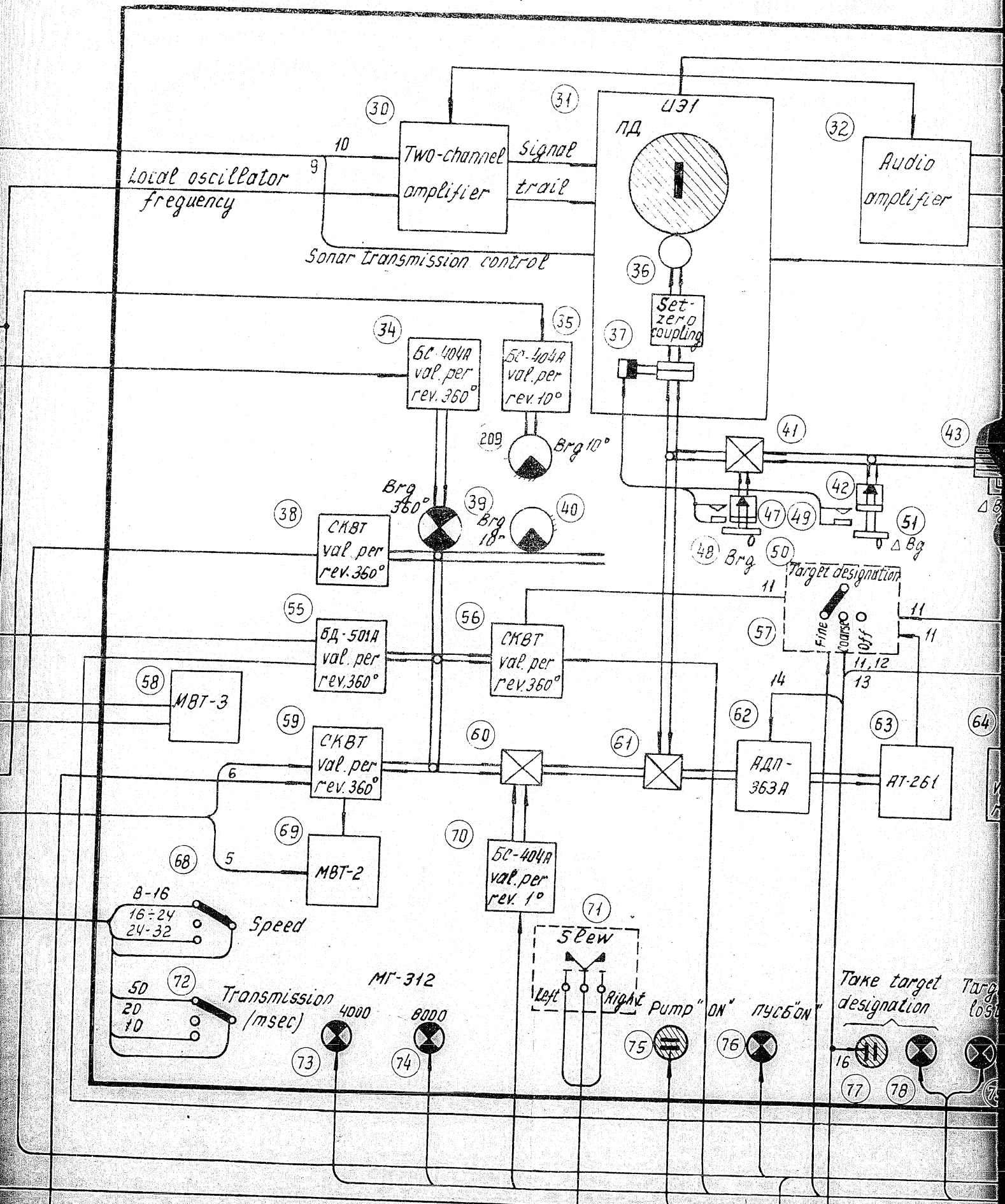
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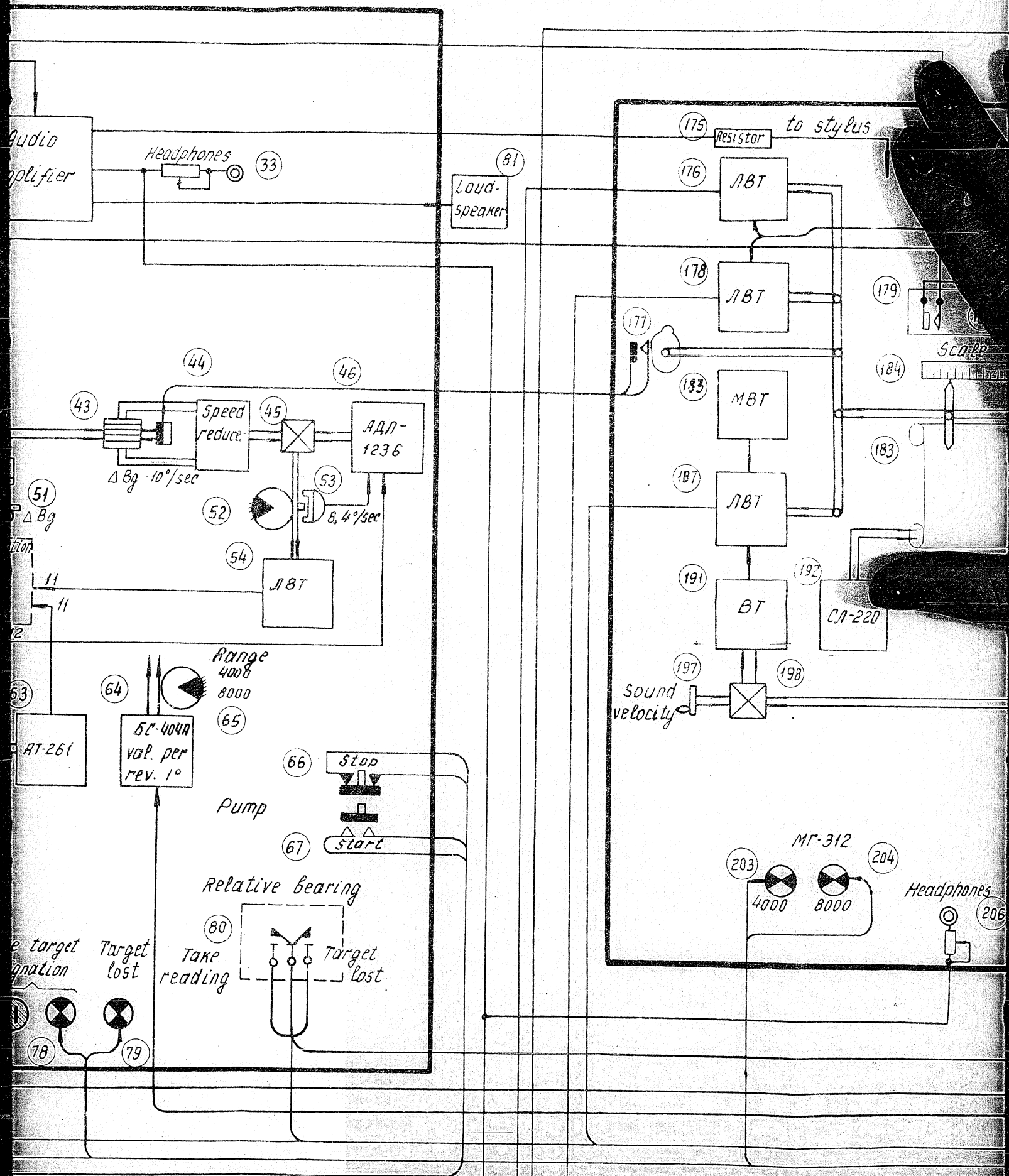
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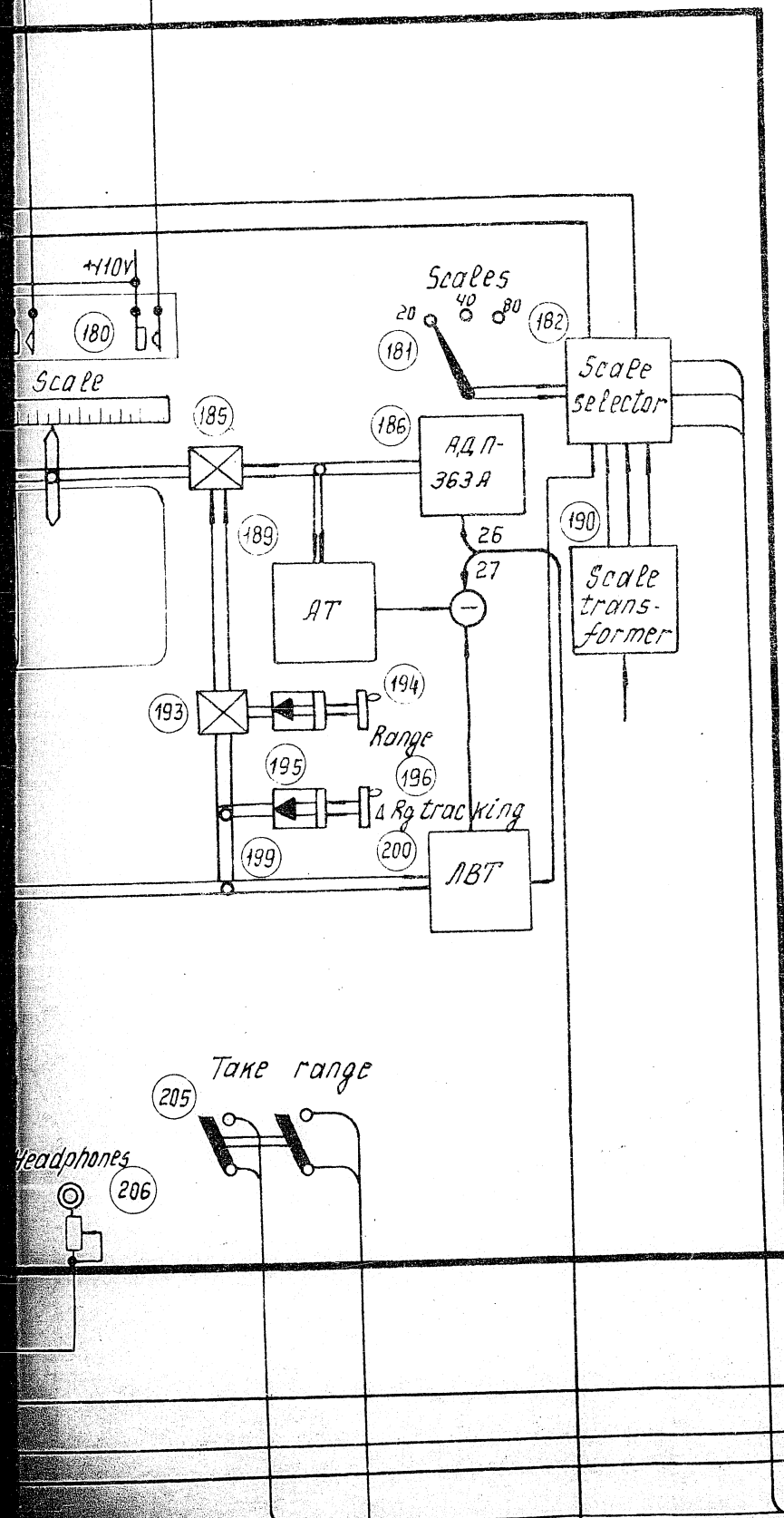
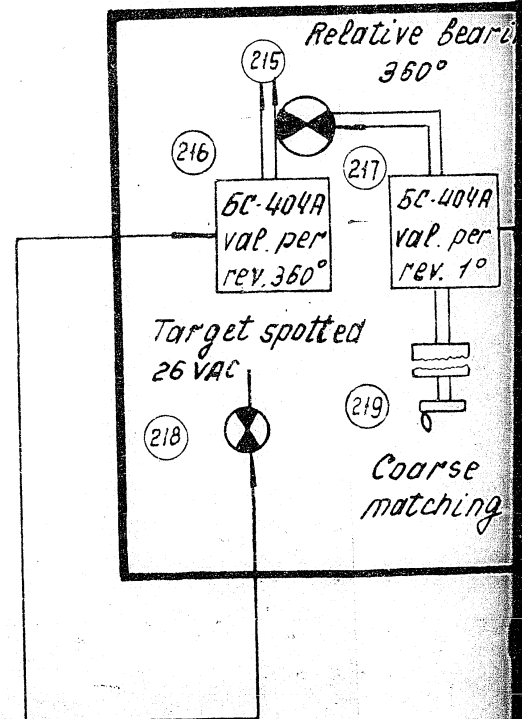
Capacitor
assembly*Tilt and direction gear with transducer array.*

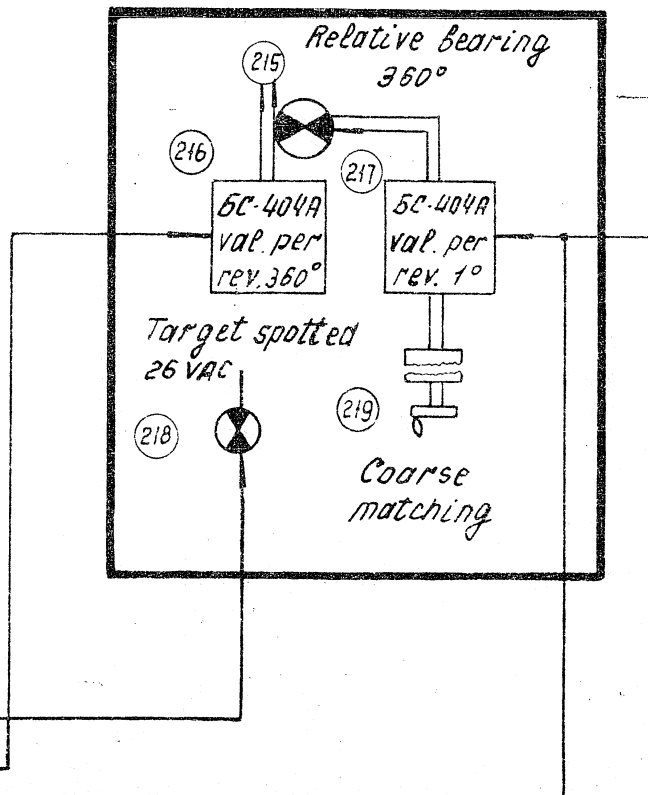


Recursive bearing control panel

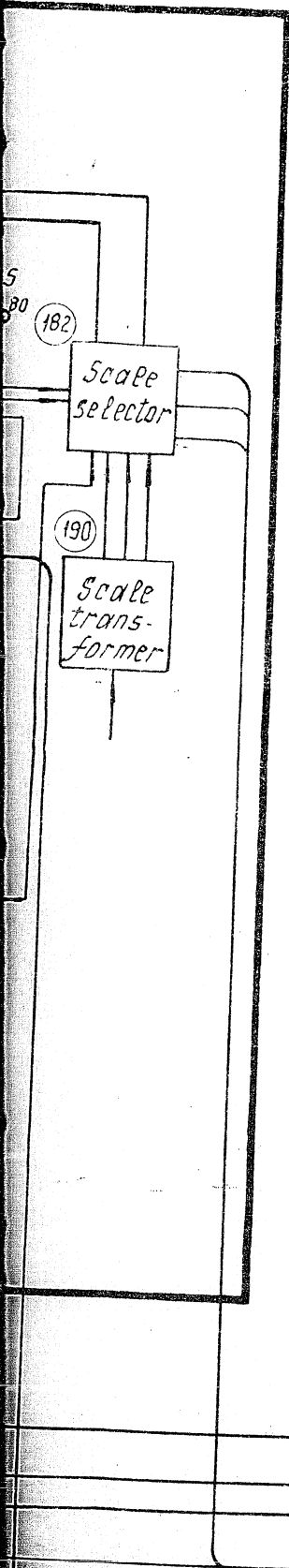




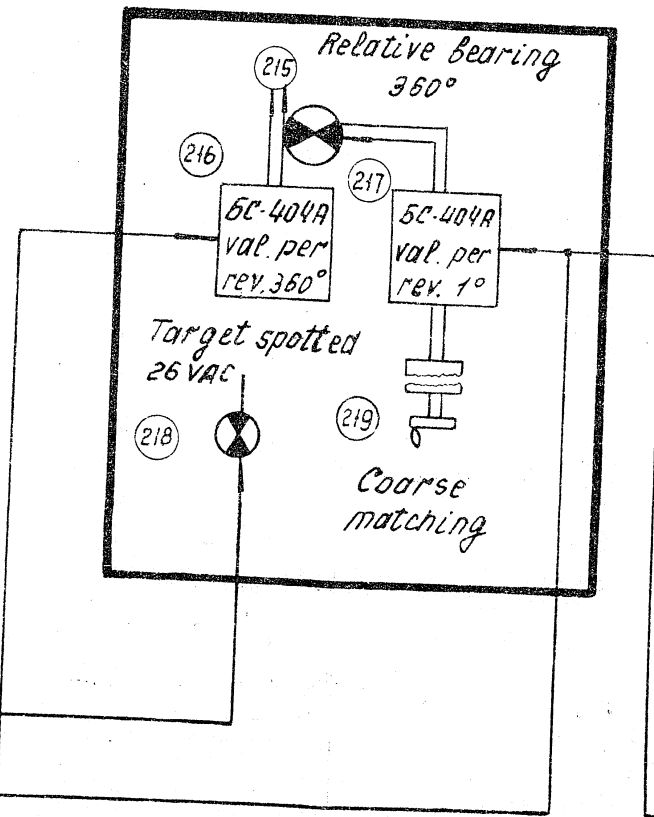
Range recorder*Relative bearing repeater*

Relative bearing repeater

to NYC6
to MR-312M
equipment

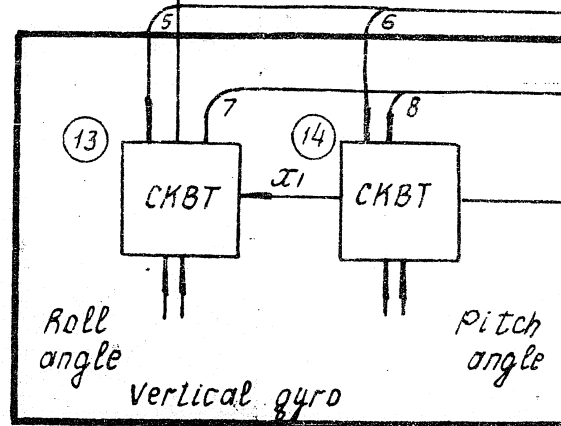
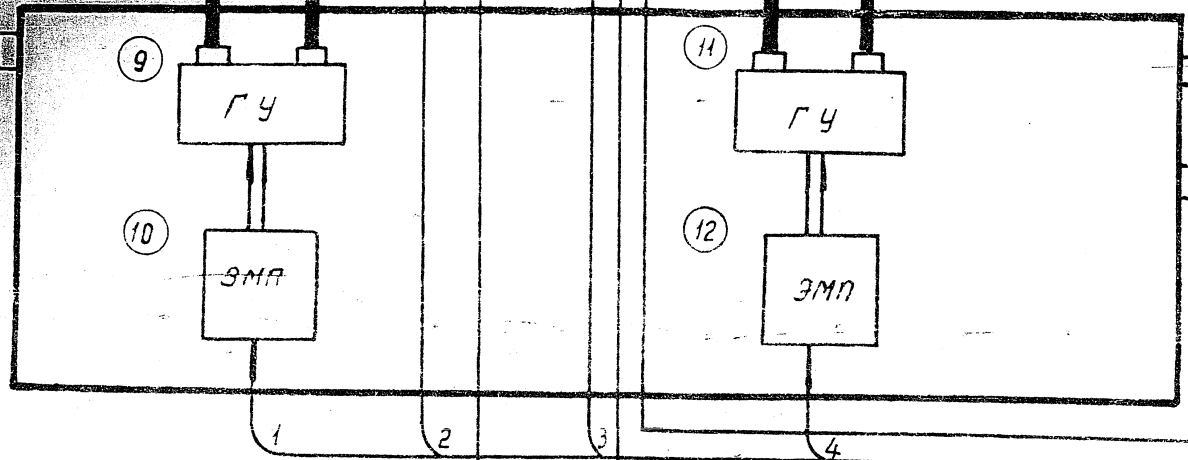


Relative bearing repeater



*to NYCB
to MR-312H
equipment*

Hydraulic amplifiers rack with fluid tank.



(19)

(20)

(21)

Pump

motor

magnetic
starter

Amplifiers rack

3

4

2

1

(22)

Relative
bearing
drive
amplifier

(23)

Tilt angle
drive
amplifier

(24)

Range
integrator
amplifier

(25)

Relative
bearing
preliminary
speed system
amplifier

(26)

Tilt angle
plotter
amplifier

(27)

Depth
plotter
amplifier

(28)

Depth
integrator
amplifier

(29)

Relative
bearing
aided
tracking
amplifier

18

17

20

28

26

27

12

14

11

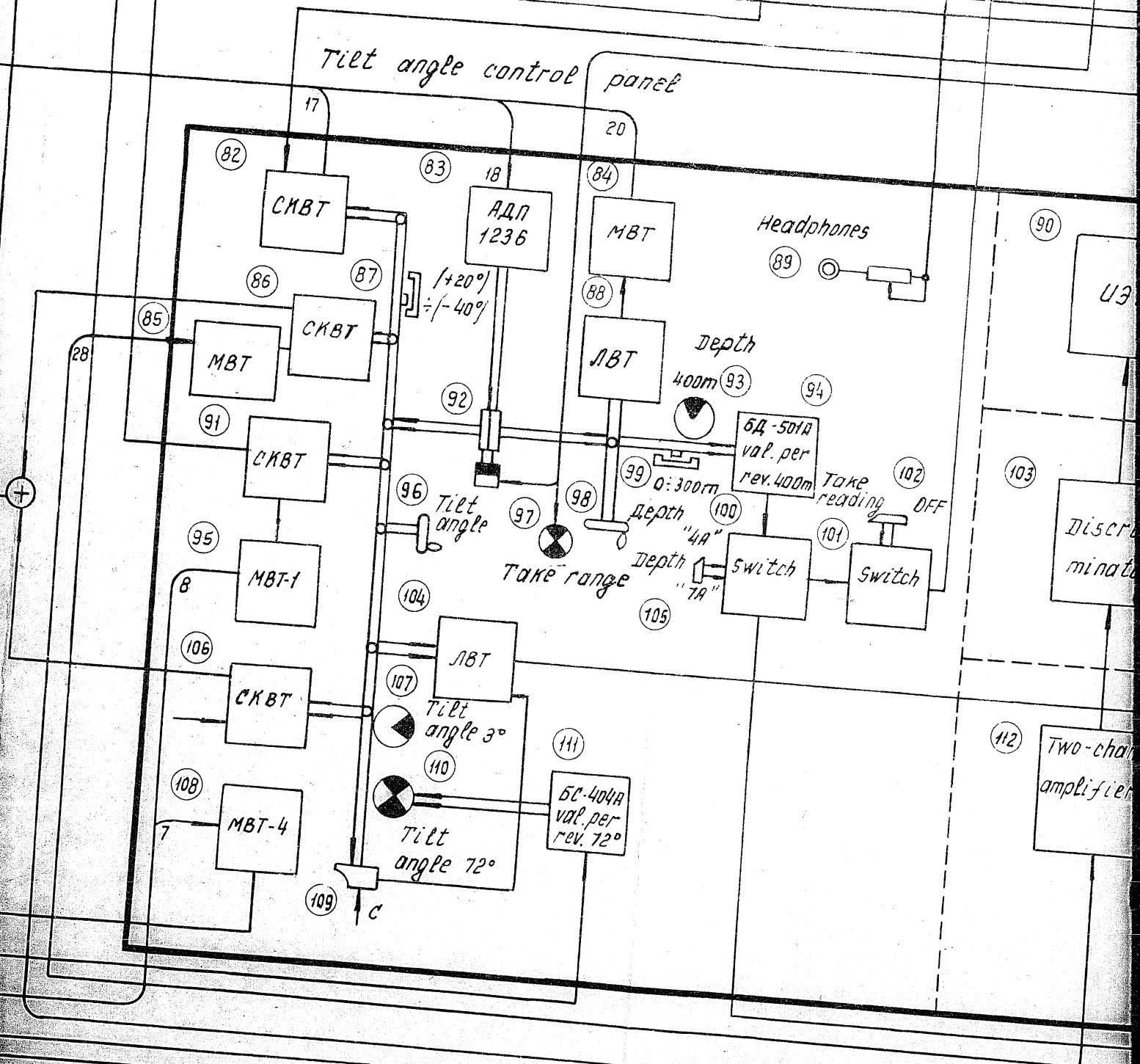
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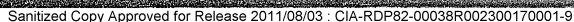
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23

25

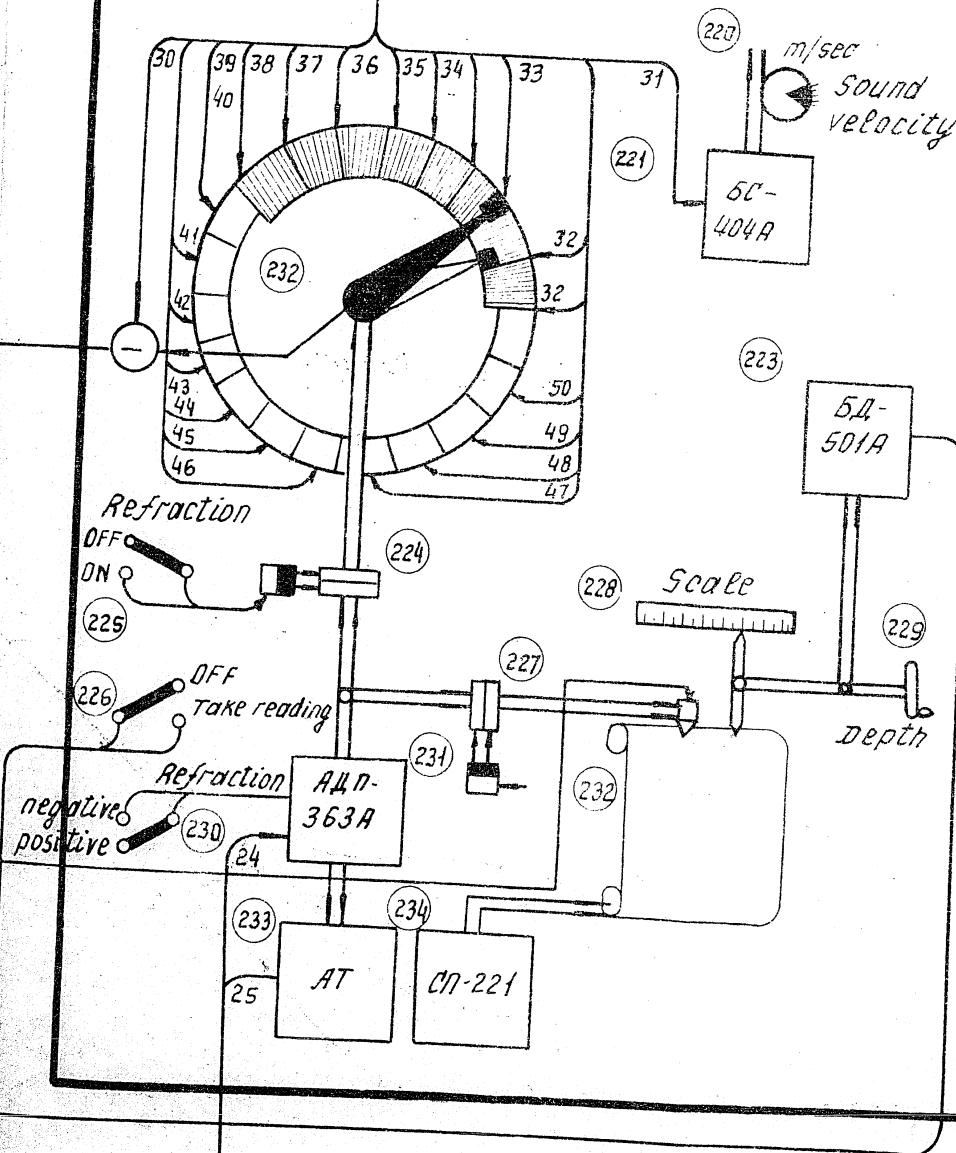
+

Tilt angle control panel



to NYC6
to MR-312M
equipment

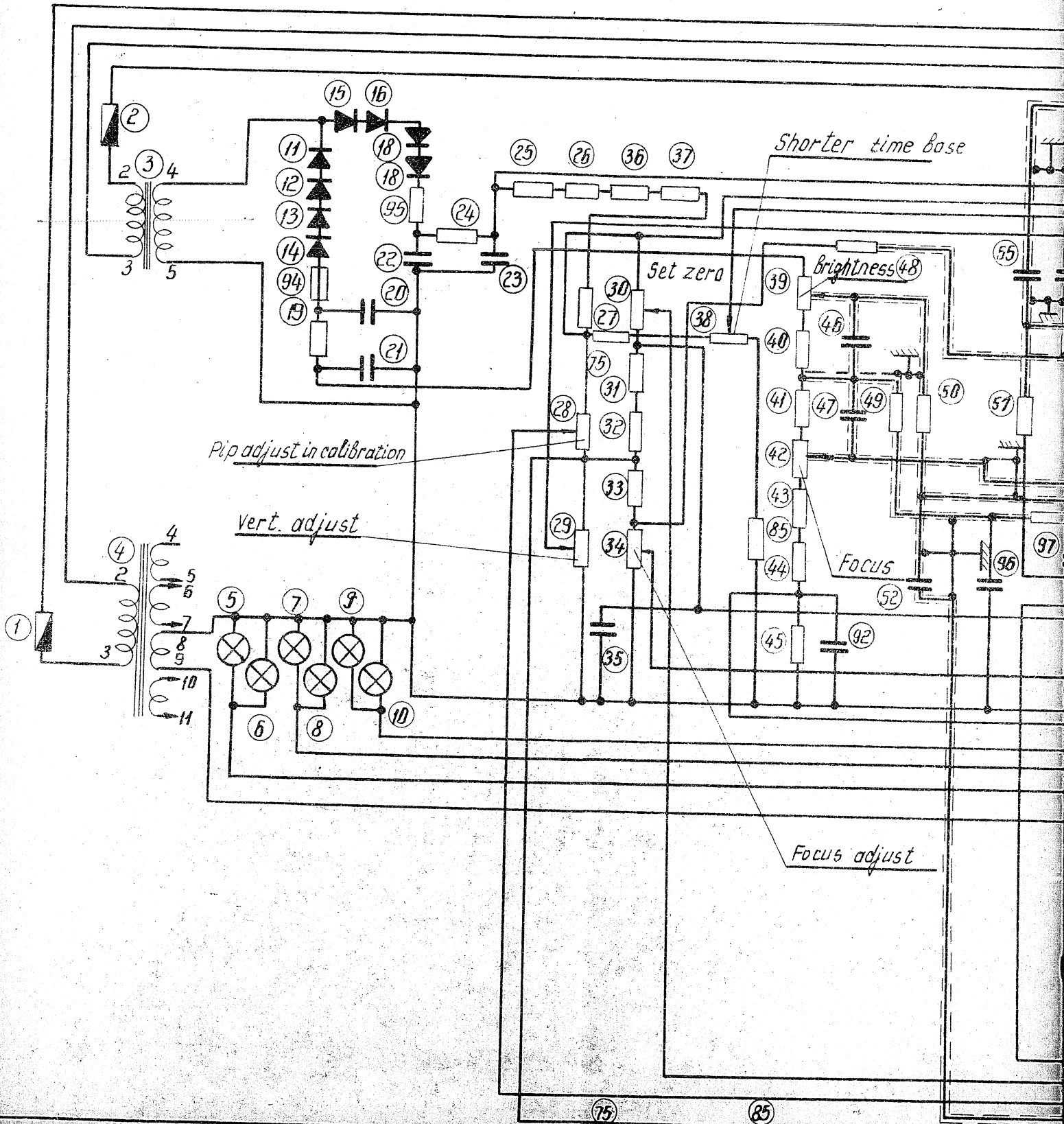
Depth recorder

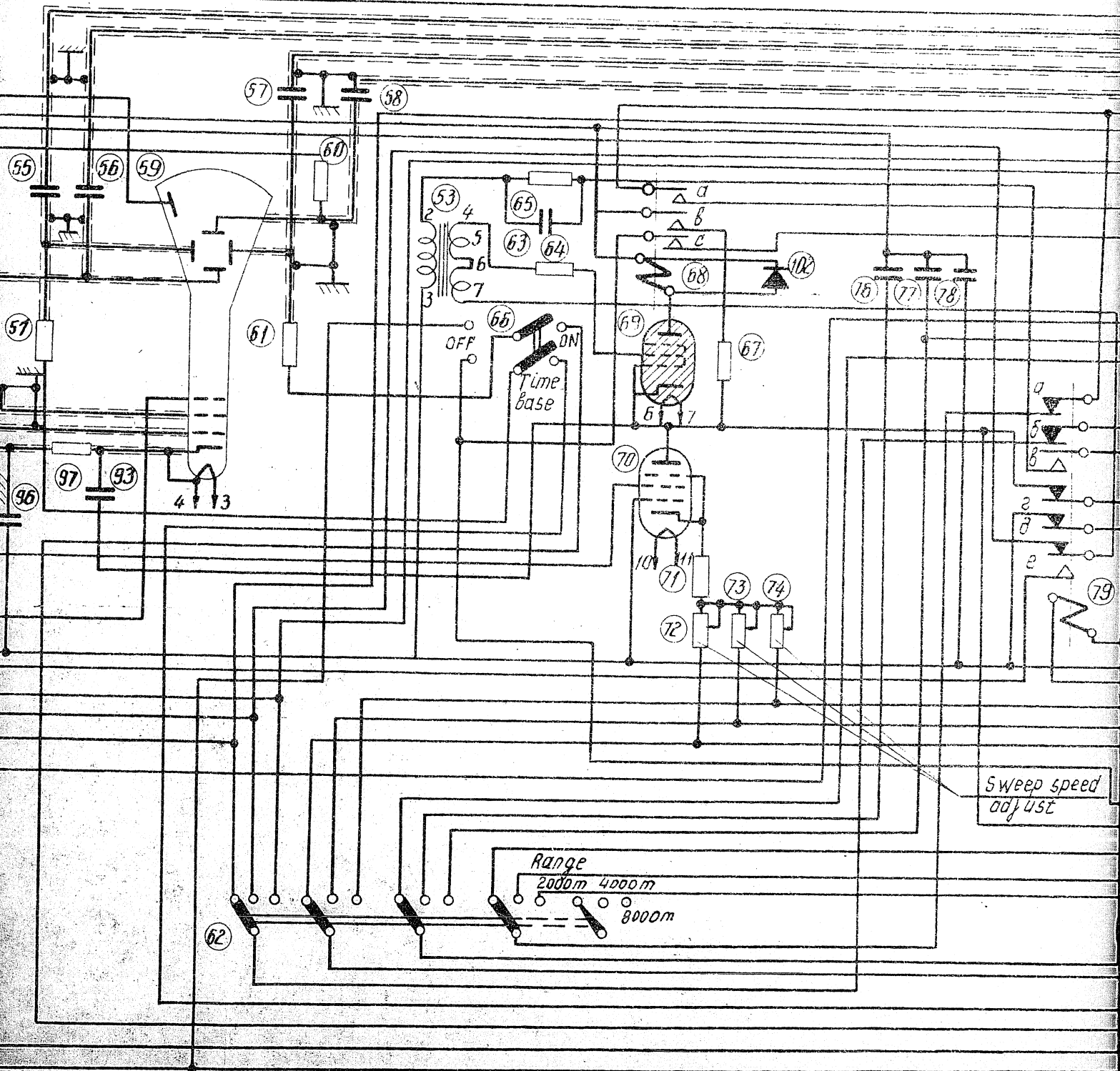


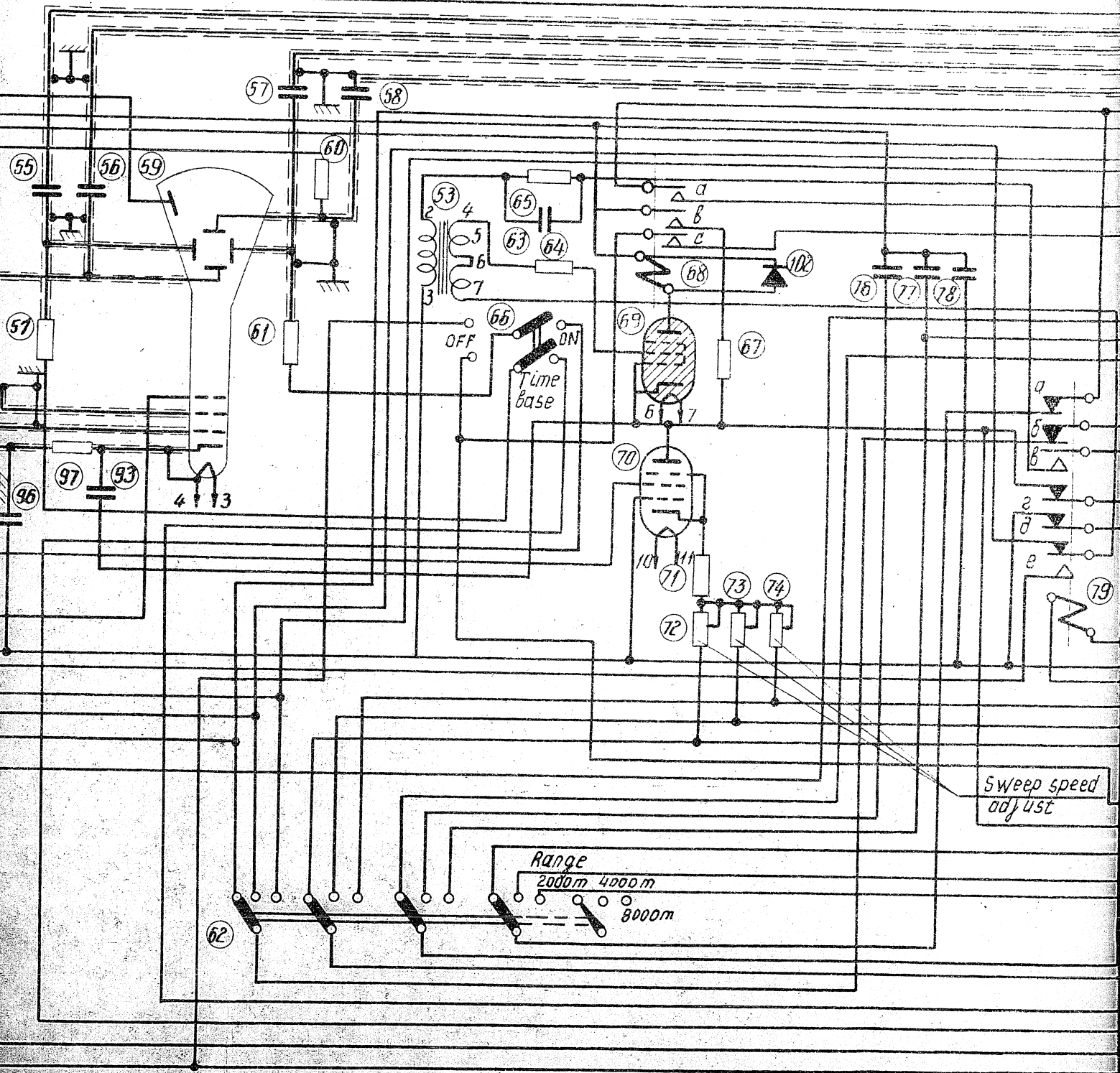
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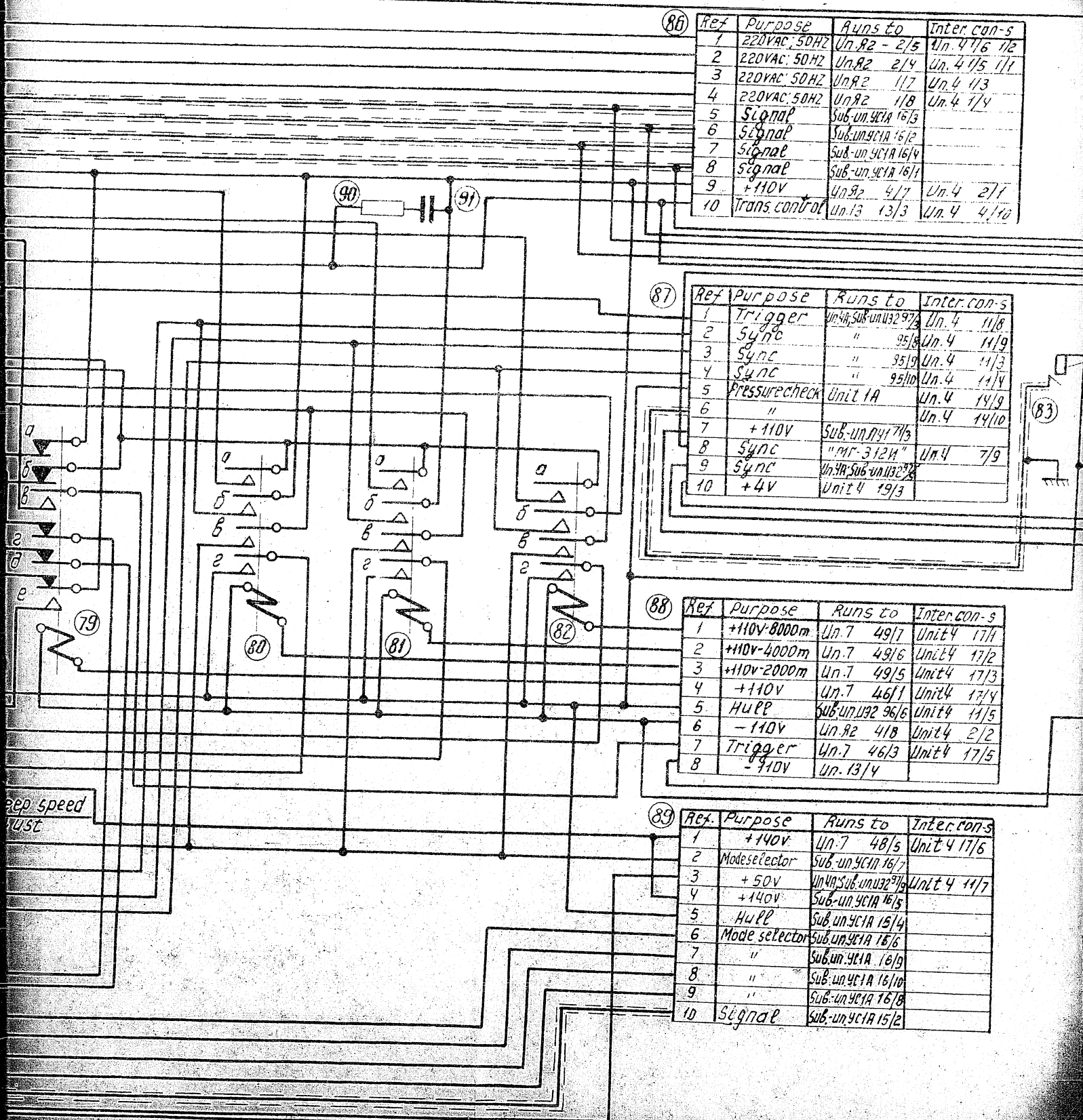
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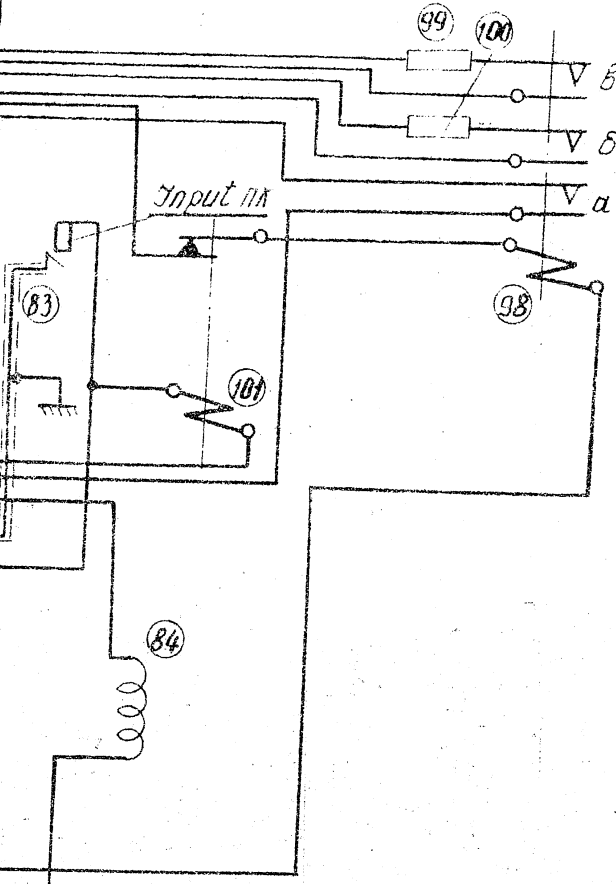




Dose	Runs to	Inter.con.s
ppr	Un.4 Sub.un43297	Un.4 11/8
pc	" 95/8	Un.4 11/9
pc	" 95/9	Un.4 11/3
pc	" 95/10	Un.4 11/4
precheck	Unit 1A	Un.4 14/9
pr		Un.4 14/10
110V	Sub.un4py17/3	
pc	"MR-312H"	Un.4 7/9
pc	Un.4 Sub.un43297	
IV	Unit 4	19/3

dose	Runs to	Inter.con-s
8000m	Un.7 49/7	Unit4 17/1
4000m	Un.7 49/6	Unit4 17/2
2000m	Un.7 49/5	Unit4 17/3
10v	Un.7 46/1	Unit4 17/4
8	SUB UN.92 96/6	Unit4 17/5
10v	Un.82 4/8	Unit4 2/2
over	Un.7 46/3	Unit4 17/5
10v	Un.13/4	

OSE	Runs to	Intercons
MOV	Un-7 48/5	Unit 4 17/6
ector	Sub-un-yc1A 15/7	
OV	Un-4 Sub-un-uc2 ³⁷⁶	Unit 4 11/7
OV	Sub-un-yc1A 16/5	
el	Sub-un-yc1A 15/4	
ector	Sub-un-yc1A 16/6	
	Sub-un-yc1A 16/9	
	Sub-un-yc1A 16/10	
	Sub-un-yc1A 16/8	
el	Sub-un-yc1A 15/2	



Sub-unit 031 Elementary circuit diagram	142048053CX	
	sheet: 1	sheets: 1

Ref.	GOST, Spec., Dwg. No.	Description and type	Rating	Q-ty	Re- marks
2	GOST 5010-53	Fuse HK-45	1 A	2	
3	ИЭ4.716.0760н	Transformer		1	
4	ИЭ4.709.0250н	Transformer		1	
10		Scale lamp CM-36		6	
1-18		Selenium rectifier ABC-6-1000		8	
19	GOST 7113-66	Resistor MHT-1-120K±10%	120 kohms	1	
23	GOST 5629-51	Capacitor KMT-2-2-0.25-II	0.25 μF	4	
24	GOST 7113-66	Resistor MHT-1-120K±10%	120 kohms	1	
25	GOST 7113-66	Resistor MHT-1-160K±10%	160 kohms	1	
26	GOST 7113-66	Resistor MHT-1-160K±10%	160 kohms	1	
27	GOST 7113-66	Resistor MHT-1-82K±10%	82 kohms	1	
30		Resistor CHO-2-470K- ±30% OC-3-20	470 kohms	3	
31	GOST 7113-66	Resistor MHT-1-100K±10%	100 kohms	1	
32	GOST 7113-66	Resistor MHT-1-20K±10%	20 kohms	1	
33	GOST 7113-66	Resistor MHT-1-36K±10%	36 kohms	1	
4		Resistor CHO-2-47K- ±20% OC-3-20	47 kohms	1	
5		Capacitor MEFO-2-160-30-II	30 μF	1	
UNIT M31 List of Parts List			ИЭ2.048.053 II		
			Sheet: 1	Sheets: 4	

P.	GOST, Spec., Dwg. No.	Description and type	Rating	Q-ty	Remarks
36	GOST 7113-66	Resistor MNT-1-160K $\pm$ 10%	160 kohms	1	
37	GOST 7113-66	Resistor MNT-1-160K $\pm$ 10%	160 kohms	1	
38		Resistor CHO-2- 470K $\pm$ 30% OC-3-20	470 kohms	1	
39		Resistor CHO-2- 22K $\pm$ 20% OC-3-20	22 kohms	1	
40	GOST 7113-66	Resistor MNT-1-11K $\pm$ 10%	11 kohms	1	
41	GOST 7113-66	Resistor MNT-1-200K $\pm$ 10%	200 kohms	1	
42		Resistor CHO-2- 220K $\pm$ 20% OC-3-20	220 kohms	1	
43	GOST 7113-66	Resistor MNT-1-240K $\pm$ 10%	240 kohms	1	
44	GOST 7113-66	Resistor MNT-1-200K $\pm$ 10%	200 kohms	1	
45	GOST 7113-66	Resistor MNT-1-100K $\pm$ 10%	100 kohms	1	
46		Capacitor MBT-3-600-A-0, 1-11	0.1 μ F	2	
47	GOST 7113-66	Resistor MNT-0,5-1M $\pm$ 10%	1 Mohm	1	
48	GOST 7113-66	Resistor MNT-0,5-160K $\pm$ 10%	160 kohms	2	
49	GOST 7113-66	Resistor MNT-0,5-1M $\pm$ 10%	1 Mohm	1	
50	GOST 5629-51	Capacitor KBP-11-2-2-0, 1-11	0.1 μ F	1	
51	IV4.720.00201	Transformer M12x12		1	
52	GOST 11155-65	Capacitor GPM-4-250-F-0,01 $\pm$ 10%	0.01 μ F	4	
53		C.R.T. tube 18J036-B		1	
54	GOST 7113-66	Resistor MNT-0,5-1M $\pm$ 10%	1 Mohm	2	
55		Switch 3H6H-P3		1	

IV2.048.053 II

Sheet: 2 Sheets: 4

f.	GOST, Spec., Dwg. No.	Description and type	Rating	Q-ty	Remarks
3	GOST 6118-59	Capacitor MBTH-400-0,05±10%	0.05 μF	1	
4	GOST 7113-66	Resistor MNT-0,5-240K±10%	240 kohms	1	
5	GOST 7113-66	Resistor MNT-0,5-510K±10%	510 kohms	1	
6		Toggle switch 2H1-2		1	
7	GOST 6513-66	Resistor HGR-10-100±10%	100 ohms	1	
8	PC4.523.608 Ch	Relay PKM		1	
9		Thyatron TFC-0,1/1,3		1	
10		Sharp pentode 6A5H		1	
11	GOST 7113-66	Resistor MNT-0,5-8,2K±10%	8.2 kohms	1	
12		Resistor CHO-2-22K±20% OC-3-20	22 kohms	1	
13		Resistor CHO-2-47K±20% OC-3-20	47 kohms	2	
14	GOST 7113-66	Resistor MNT-1-200K±10%	200 kohms	1	
15		Capacitor MBTH-1-600-A-2-E	2 μF	1	
16		Capacitor MBTH-1-600-A-4-E	4 μF	1	
17		Capacitor MBTH-1-600-A-10-E	10 μF	1	
18	PC4.523.628 Ch	Relay PKM		1	
19		Relay PKM		3	
20	77.527.009	Jack		1	
21	76.771.036	Electric coupling		1	
22	GOST 7113-66	Resistor MNT-1-5,1K±10%	5.1 kohms	1	
23		Terminal strip HC4-10	10-term.	1	

DY2.048.050 II

Sheet: 3

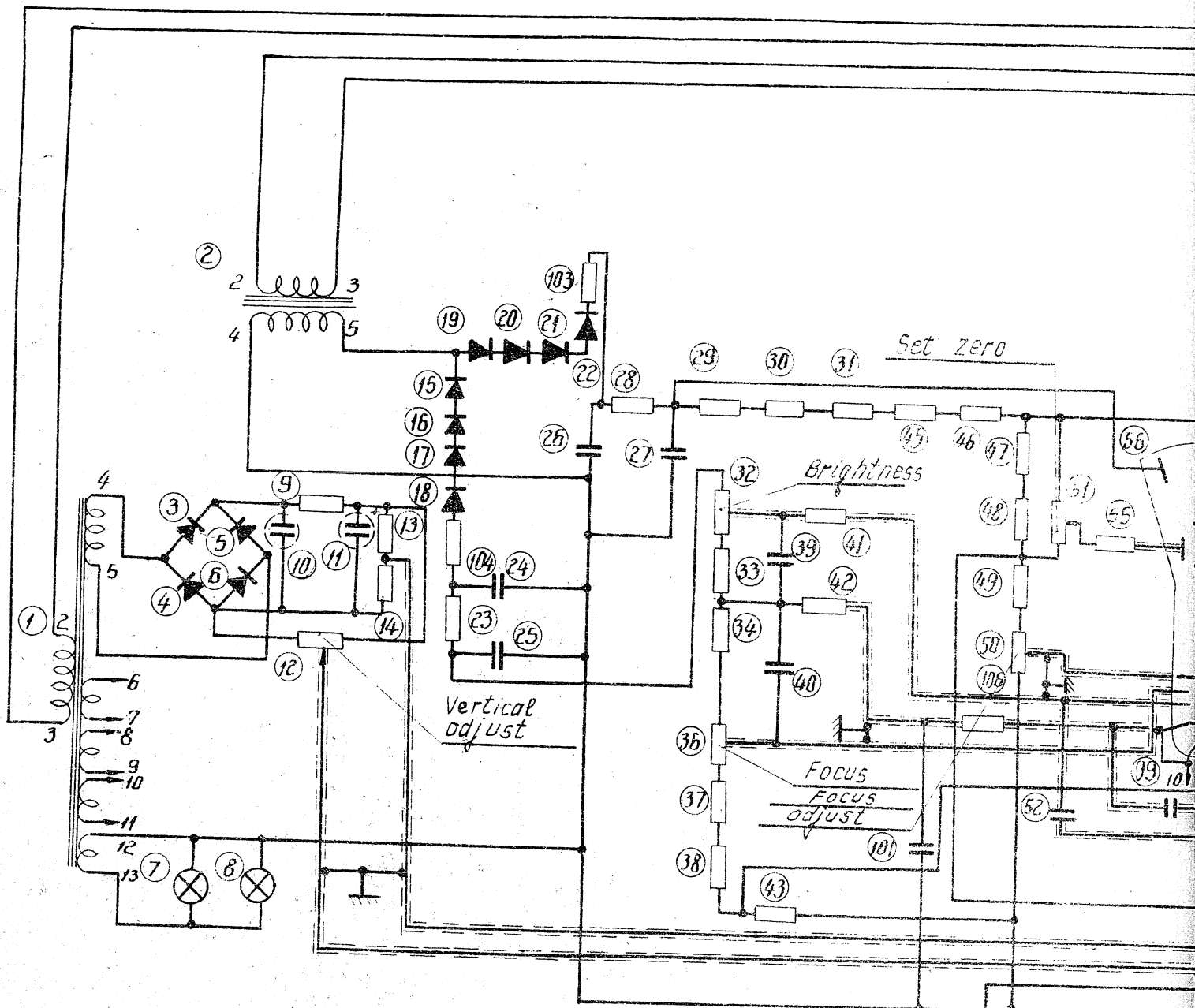
P.	GOST, Spec., Dwg. No.	Description and Type	Rating	Q-ty	Remarks
7		Terminal strip UC4-10	10-term.	1	
8		Terminal strip UC4-8	8-term.	1	
9		Terminal strip UC4-10	10-term.	1	
10	GOST 7113-66	Resistor MRT-1-100-10%	100 ohms	1	
11		Capacitor MBP-2-200-A-1-II	1 μ F	1	
12		Capacitor MBP-4-200-A-2-II	2 μ F	1	
13		Capacitor MBP-4-0.01-II	0.01 μ F	1	
195	GOST 7113-66	Resistor MRT-1-56-10%	56 kohms	2	
16	GOST 5629-51	Capacitor MBP-2-2-0.1-II	0.1 μ F	1	
17	GOST 7113-66	Resistor MRT-0.5-450-10%	450 kohms	1	
18	P4.522.0170n	Relay P4M1		1	
19	GOST 7113-66	Resistor MRT-1-510-10%	510 ohms	2	
20					
21	P40.452.182	Relay P4M-6		1	
22		Diode 1N206		1	

HY2.048.053 II

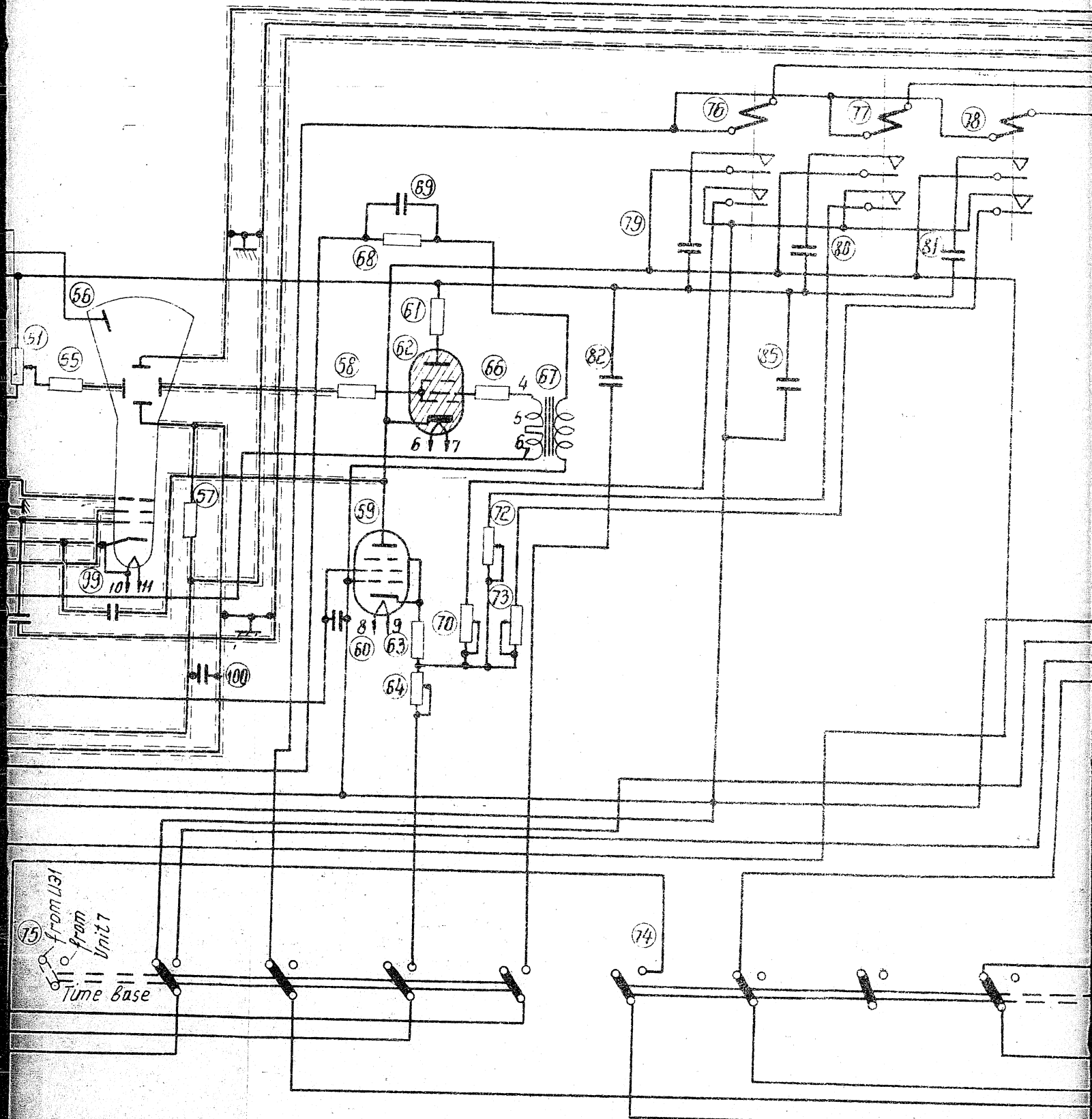
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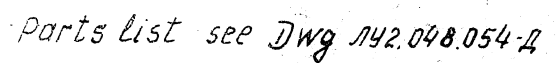
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175 from 1131
 from
 Unit 7
 Time 8a





1420

Elementary circuit

Unit 4 Sub-unit 8/12	Unit 4A 3/6
Unit 4 Sub-unit 8/13	Unit 4A 3/7
Unit 4 Sub-unit 8/14	Unit 4A 3/8

	Interm. conn-s
Unit 4A 12/7	
Unit 4A 12/8	
5 HUPP	Sub-unit 5/4
6 HUPP	Unit 4A 3/9
7 26VAC 50HZ	Unit 4A 2/2

Purpose	Runs to	Interm. conn-s
1 Trigger	Sub-unit 225/8	
2		
3 Trigger	Unit 4A 3/5	
4 Trigger	Sub-unit 226/9	
5 Sync	Unit 4A 8/5	
6 Mode	Unit 4A 8/7	
7 +110V	Unit 4A 2/5, 1/9	
8	Unit 4A 9/10, 9/8	
9 +50V	Unit 4A 4/1	
10 -110V	Unit 4 2/6, 1/10	

Purpose	Runs to	Interm. conn-s
Control relay	Unit 4A 5/1	
" "	Unit 7 56/8	Unit 4A 12/9

Parts list see DWG 142.048.054-D

Sub-unit U32	
Elementary circuit diagram	
142.048.054 CX3	
sheet:	Sheets: 1

Ref.	GOST, Spec., Dwg. No.	Description and type	Rating	Q-ty	Re- marks
1	ЛП4.700.0350н	Transformer		1	
2	ЛП4.700.0760н	Transformer		1	
3-6		Diode II 226		4	
7,8		Scale lamp OM-36		2	
9	GOST 7113-66	Resistor МНТ-1-10K $\pm$ 10%	10 kohms	1	
10.		Capacitor	20 μ F	2	
11		СФН-0-150/20-0М			
12		Resistor СНО-2-470K $\pm$ 30% 00-3-20	470 kohms	1	
13, 14		Resistor СНО-0,5-200K $\pm$ 10%	200 kohms	1	
15-22		Selenium rectifier СНО-7-40-М		8	
23	GOST 7113-66	Resistor МНТ-1-120K $\pm$ 10%	120 kohms	1	
24-27	GOST 5699-51	Capacitor КВПК-2-0,25-Н	0.25 μ F	4	
28	GOST 7113-66	Resistor МНТ-1-120K $\pm$ 10%	120 kohms	1	
29	GOST 7113-66	Resistor МНТ-1-200K $\pm$ 10%	200 kohms	1	
30	GOST 7113-66	Resistor МНТ-1-240K $\pm$ 10%	240 kohms	1	
31	GOST 7113-66	Resistor МНТ-1-270K $\pm$ 10%	270 kohms	1	
32		Resistor СНО-2- 22K $\pm$ 20% 00-3-20	22 kohms	1	
33	GOST 7113-66	Resistor МНТ-1-18K $\pm$ 10%	18 kohms	1	

SUB-UNIT M32

Parts List

ЛП2.048.054 II

Sheet: 1 . Sheets: 4

af.	GOST, Spec., Dwg. No.	Description and type	Rating	Q-ty	Remarks
34	GOST 7113-66	Resistor MNT-2-200K $\pm$ 10%	200 kohms	1	
36		Resistor CHO-2- 220K $\pm$ 20% OC-3-20	220 kohms	1	
37	GOST 7113-66	Resistor MNT-2-240K $\pm$ 10%	240 kohms	1	
38		Resistor MNT-1-200K $\pm$ 10%	200 kohms	1	
39-40	GOST 7112-54	Capacitor KBPH-3-600-2-0,1-П	0.1 μ F	2	
41	GOST 7113-66	Resistor MNT-1-160K $\pm$ 10%	160 kohms	1	
42	GOST 7113-66	Resistor MNT-0,5-160K $\pm$ 10%	160 kohms	1	
43	GOST 7113-66	Resistor MNT-1-100K $\pm$ 10%	100 kohms	1	
45	GOST 7113-66	Resistor MNT-1-240K $\pm$ 10%	240 kohms	1	
46	GOST 7113-66	Resistor MNT-1-75K $\pm$ 10%	75 kohms	1	
47	GOST 7113-66	Resistor MNT-1-82K $\pm$ 10%	82 kohms	1	
48	GOST 7113-66	Resistor MNT-1-240K $\pm$ 10%	240 kohms	1	
49	GOST 7113-66	Resistor MNT-1-43K $\pm$ 10%	43 kohms	1	
50		Resistor CHO-2- 47K $\pm$ 20% OC-3-20	47 kohms	1	
51		Resistor CHO-2- 470K $\pm$ 30% OC-3-20	470 kohms	1	
52	GOST 5629-51	Capacitor KBPH-2-2-0,1-П	0.1 μ F	1	
53	GOST 7113-66	Resistor MNT-0,5-1M $\pm$ 10%	1 Mohm	1	

Л/2.048.054 П

Sheet: 2 Sheets: 4

Ref.	GOST, Spec., Dwg. No.	Description and type	Rating	Q-ty	Remarks
56		C.R.T. 13M036-B		1	
57, 58	GOST 7113-66	Resistor MHT-0,5-1K±10%	1 Mohm	2	
59		Pentode 6X50		1	
60	GOST 7112-54	Capacitor MBFD-2-200-A-2-II	2 μF	1	
61	GOST 7113-66	Resistor MHT-1-510±10%	510 ohms	1	
62		Vacuum tube HTC-0,1/1,8		1	
63	GOST 7113-66	Resistor MHT-0,5-6,2K±10%	6.2 kohms	1	
64		Resistor CHO-2- 47K±20% OC-3-20	47 kohms	1	
65, 66	GOST 7113-66	Resistor MHT-0,5-5,1K±10%	5.1 kohms	1	
67	IV4.7.0.002	Transformer W12x12		1	
68	GOST 7113-66	Resistor MHT-0,5-510K±10%	510 kohms	1	
69	GOST 6118-59	Capacitor KBPH-400-0,05±10%	0.05 μF	1	
70		Resistor CHO-2- 47K±20% OC-3-20	47 kohms	1	
71		Resistor CHO-2- 47K±20% OC-2-20	47 kohms	1	
72		Resistor CHO-2- 22K±20% OC-3-20	22 kohms	1	
73		Switch 2D4H-K		2	
74		Relay PKMM		3	
75	PC4.523.6210n	Capacitor MBFD-1-600-A-1-II	1 μF	1	

IV2.048.054 II

Sheet: 3 Sheets: 4

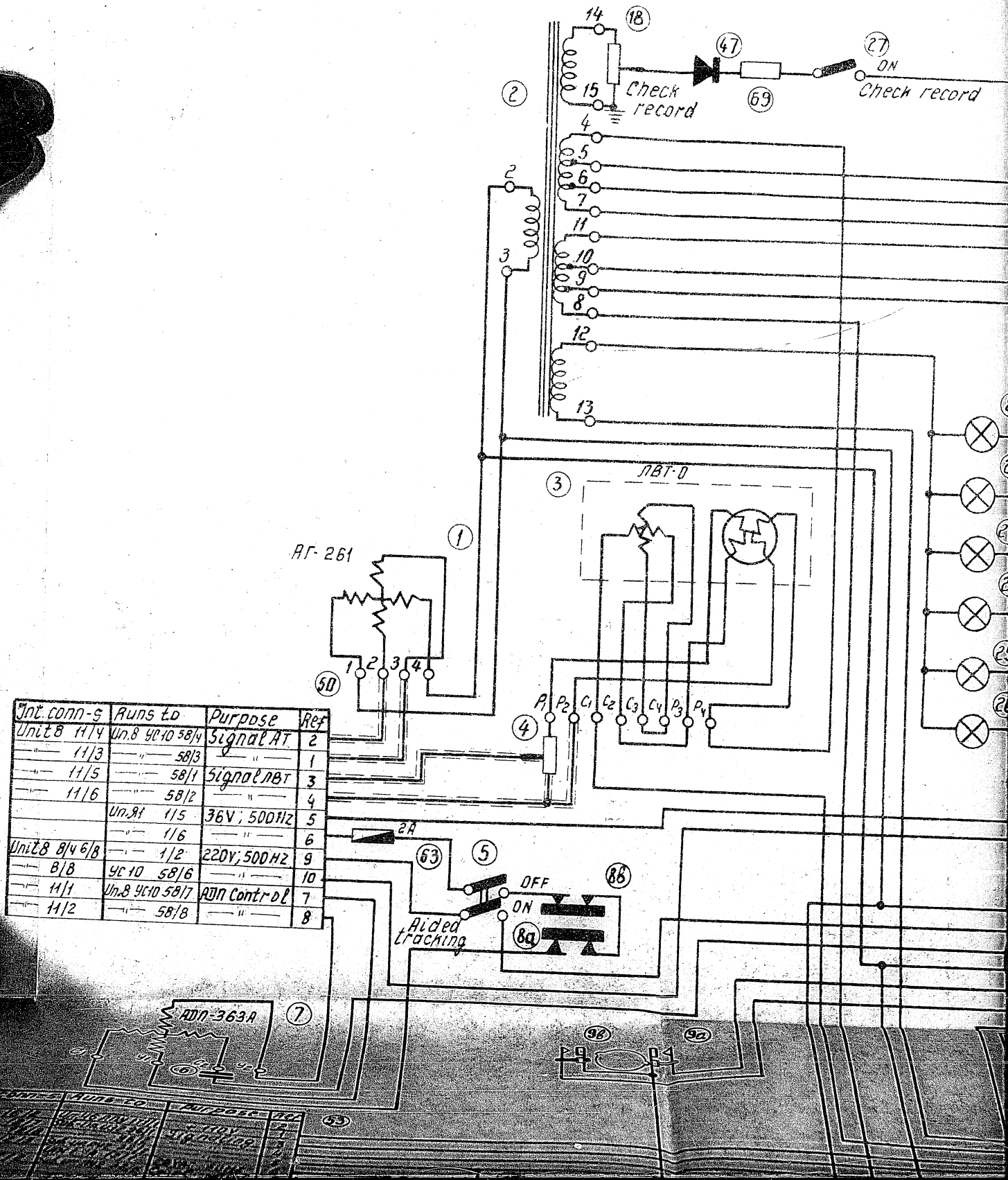
Ref.	GOST, Spec., Wvg. No.	Description and type	Rating	Q-ty	Remarks
30		Capacitor MBPH-1-600-A-2-II	2 μ F	1	
31		Capacitor MBPH-1-600-A-4-II	4 μ F	1	
32		Capacitor MBPH-1-600-A-0,5-II	0.25 μ F	1	
35		Capacitor MBPH-1-600-A-10-II	10 μ F	1	
38					
39					
92	GOST 5010-53	Fuse BK-45-0,5	0,5 A	2	
94		Scale lamp MH-12	26 V 0.12A	2	
95		Terminal strip HC4-10	10-term.	1	
96		Terminal strip HC4-8	8-term.	1	
97		Terminal strip HC4-10	10-term.	1	
98		Terminal strip HC4-4	4-term.	1	
99		Capacitor OPT-4-4-0,01-II	0.01 μ F	1	
0	GOST 6118-59	Capacitor KBPH-200-0,1-10%	0.1 μ F	1	
1	GOST 5629-51	Capacitor KBPH-2-2-0,1-II	0.1 μ F	1	
2	GOST 7113-66	Resistor MLT-1-56K-10%	56 kohms	2	
3	GOST 7113-66	Resistor MLT-0,5-430K-10%	430 kohms	1	

ЛВ2.048.054 Л

Sheet: 4 Sheets: 4

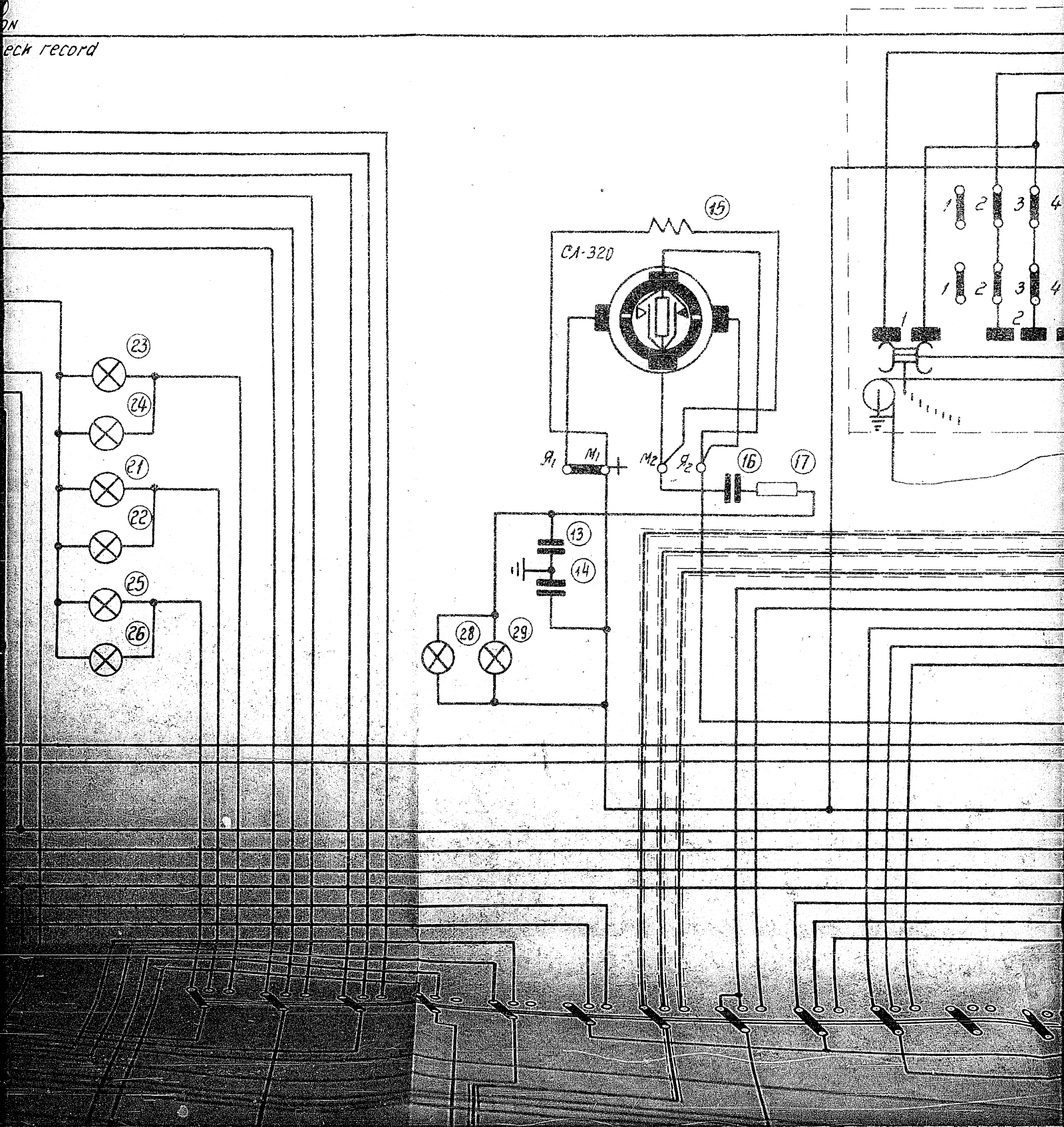
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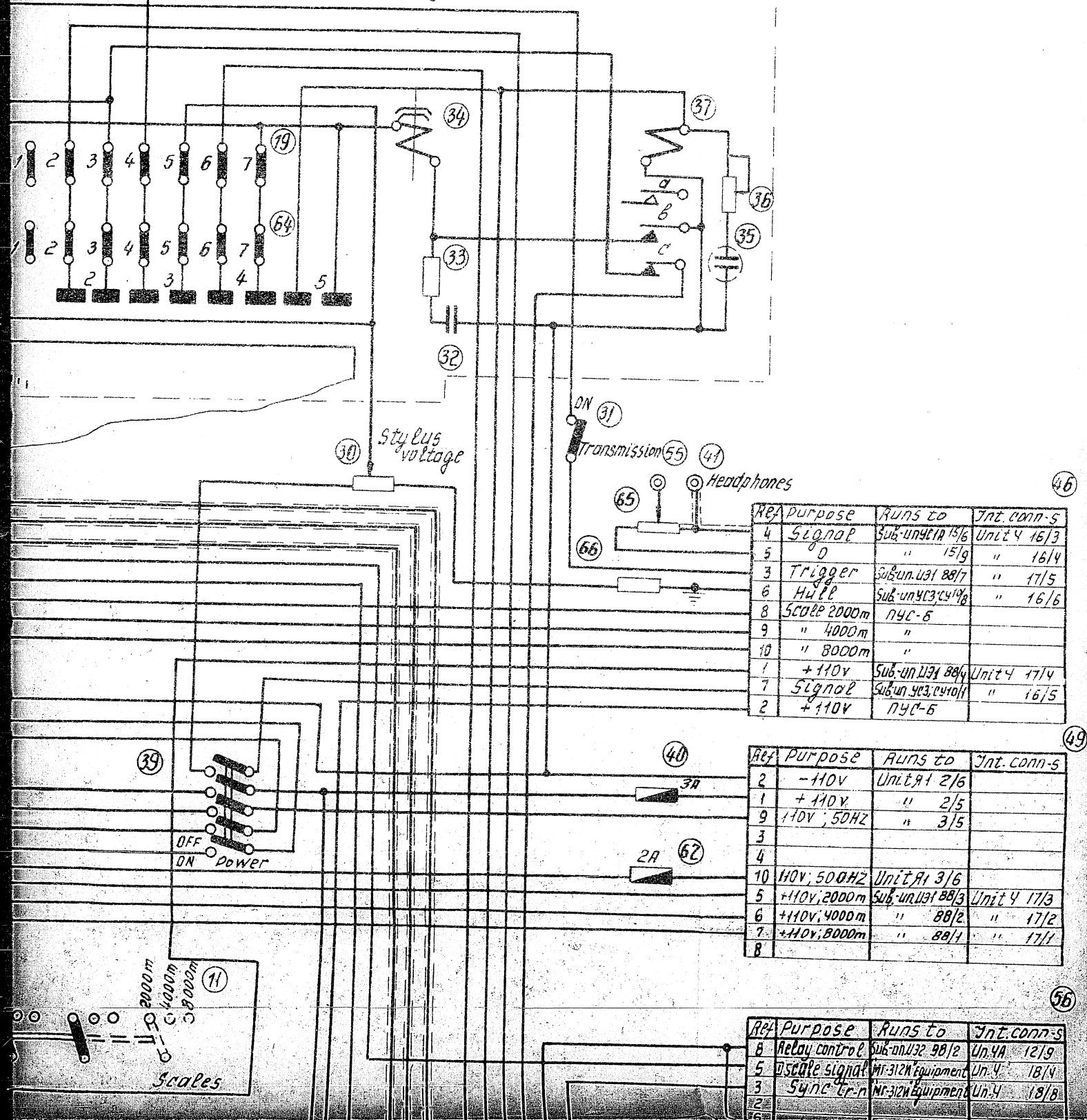


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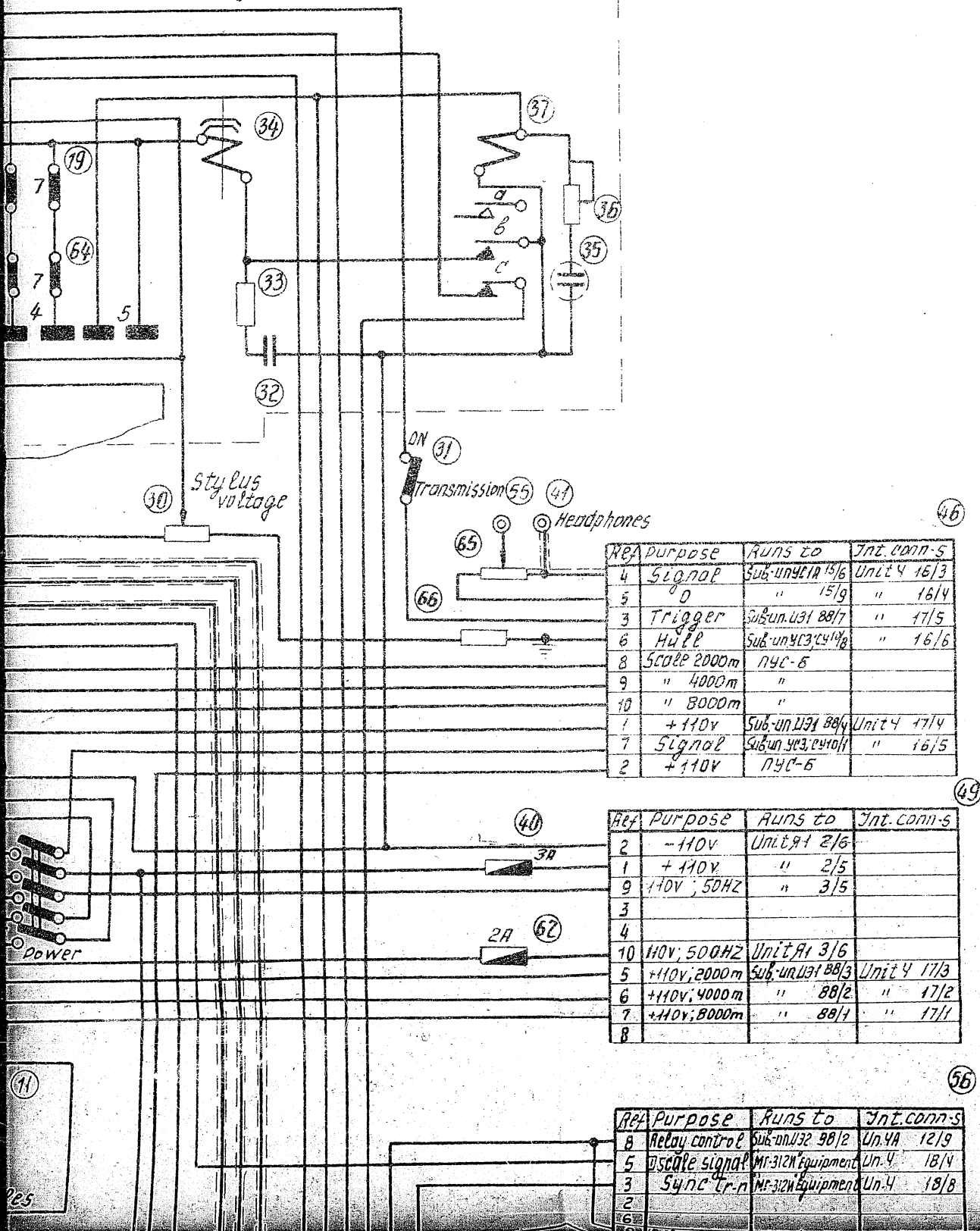
check record



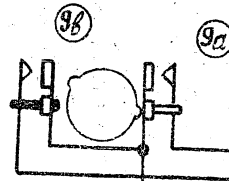
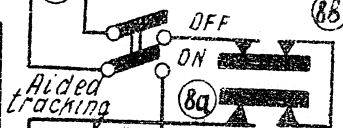
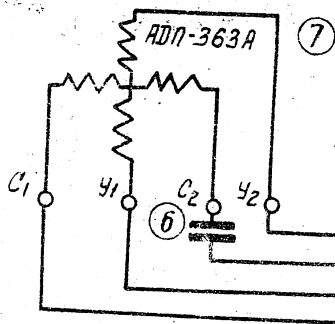
Recorder system



Recorder system



Unit 8	11/5	36V, 500HZ	3
Unit 8	11/6	220V, 500HZ	6
Unit 8	11/2	220V, 500HZ	9
Unit 8	11/8	58/6	10
Unit 8	11/1	ADN Control	7
Unit 8	11/2	58/8	8

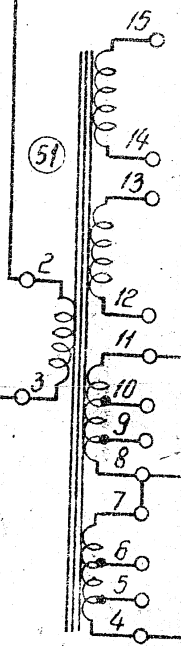
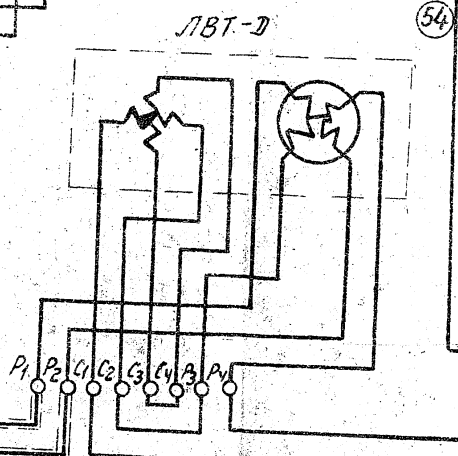
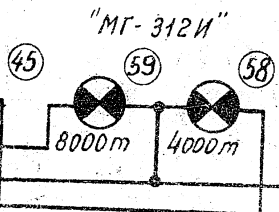


Int. conn-s	Runs to	Purpose	Ref
Unit 4	16/2	Unit 46 nny 17/1	2
Unit 4A	12/7	Sub-unit 432 96/1	1
"	12/8	96/2	3
"	12/3	Sub-unit 42 32/7	4
"	12/1	Unit 4A 12/1	5
Unit 4A	12/2	Sub-unit 42 32/6	6
"	NYC-5	Signal take range	7
"	"	+110V	8
"	"	"	9
"	"	"	10

53

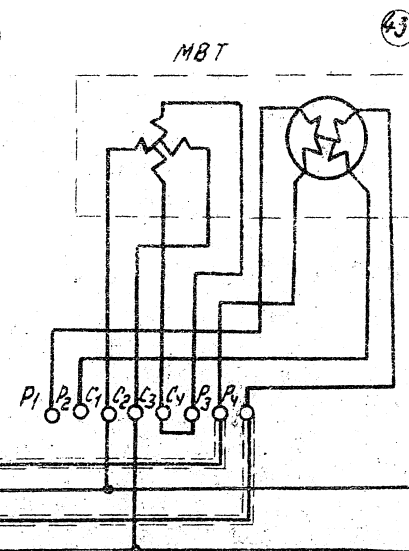
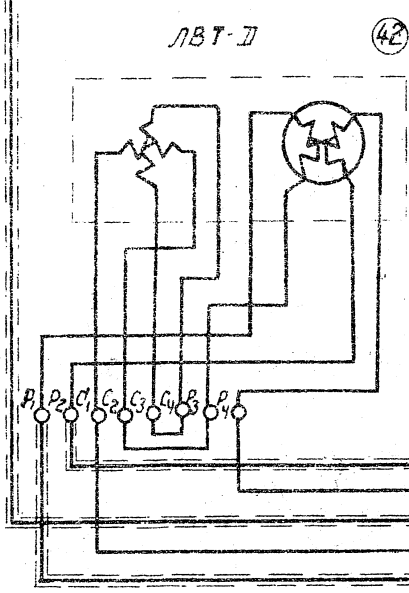
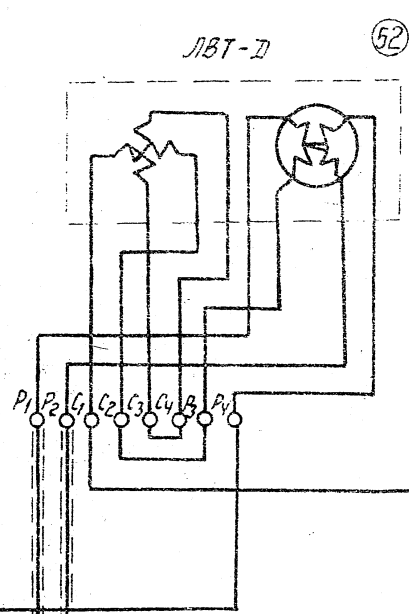
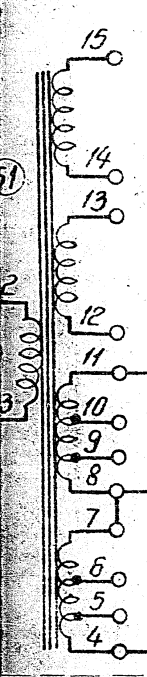
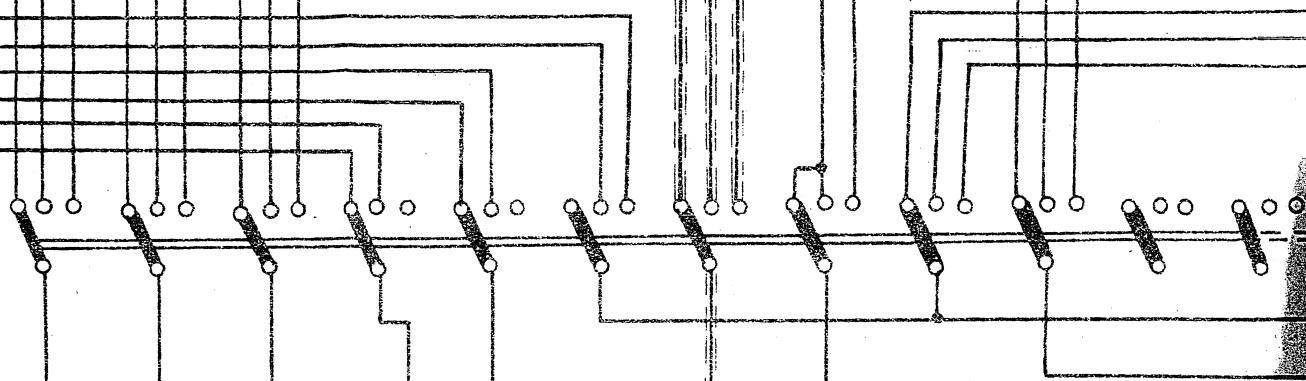


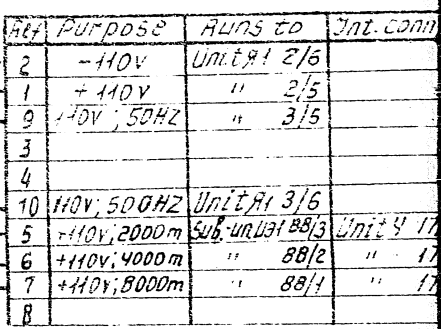
Int. conn-s	Runs to	Purpose	Ref
Unit 4	20/6; 9/10	"MR-312H"	1
"	20/7; 9/7	26V, 50HZ	2
"	20/5; 9/9	scale "signal"	3
Unit 4A	12/5	Sub-unit 42 33/4	10
"	12/4	"	9



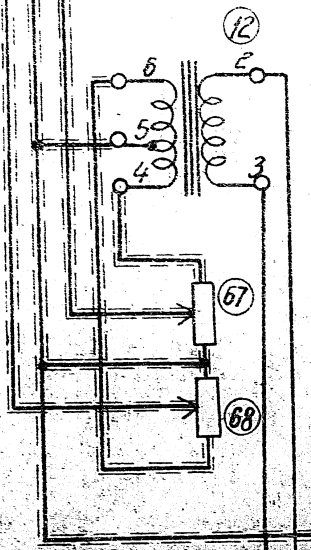
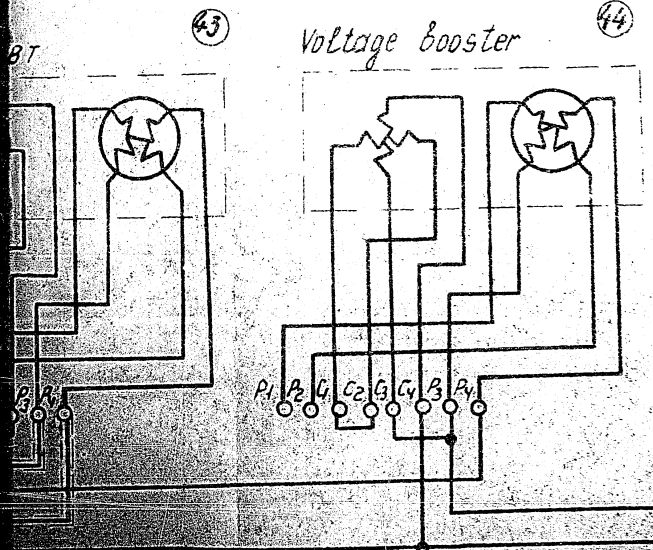
Int. conn-s	Runs to	Purpose	Ref
Unit 25	3/10	Unit 25 Sub-unit 6K-2	1
"	3/9	"	2
Unit 4	8/4	Unit 4 Sub-unit 432 96/1	4
"	5/6	Unit 4 Sub-unit 432 96/2	3
"	5/7	Unit 4 Sub-unit 432 96/3	5
"	5/8	Unit 4 Sub-unit 432 96/4	6
"	17/8	Unit 4 Sub-unit 432 96/5	7
"	17/7	Unit 4 Sub-unit 432 96/6	8
"	"	Excite 110V, 50HZ	9
"	"	"	10

(39)





Ref	Purpose	Runs to	Int.com
8	Relay control	Sub-00032 98/2	Un.4A 12
5	η Scale signal	MR-312W Equipment	Un.4 18
3	Sync Trn	MR-312W Equipment	Un.4 18
2			
6			
8	Relay control	MR-312W Equipment	Un.4 18
7	η Scale signal	MR-312W Equipment	Un.4 18
1			
10	Relay control	Unit 4A 12/10	
4	Sync	MR-312W Equipment	Un.4 18



REF	Purpose	Auns to	Inter
5	+ 200V	SUB-UN 31 89/1	Unit 4
1	Trigger	SUB-UN 402 25/7	Unit 4
9	Scale voltage 187-J	79C-6	
8	110 V, 500HZ	"	
7	"	"	
10	Scale voltage 187-J	"	
2			
3			
4			
6			

Purpose	Runs to	Int. conn-s
110V	Unit #1 2/6	
110V	" 2/5	
0V, 50HZ	" 3/5	
500HZ	Unit #1 3/6	
0V, 2000m	50% unit #1 88/3	Unit #4 17/3
0V, 4000m	" 88/2	" 17/2
0V, 8000m	" 88/1	" 17/1

Phase	Runs to	Int. conn's
4y control	Sub-conn 98/2	Un. 4A 12/9
4y signal	MR-312W Equipment	Un. 4 18/4
4y/cr-n	MR-312W Equipment	Un. 4 18/8
4y control	MR-312W Equipment	Un. 4 18/6
4y signal	MR-312W Equipment	Un. 4 18/6
4y control	Unit 4A 12/10	
4y/cr	MR-312W Equipment	Un. 4 18/7

Note: See Parts list on three sheets DWg No 142.478.015d

DDSE	Auns to	Interconn-s
DDV	SUBSID 89/1	Unit 4 17/6
er	SUB-UN 402.25/7	Unit 4A 12/6
Page 1167-D	179C-6	
500HZ	"	
	"	
Page 1167-D	"	

Note: See Parts list on three sheets DWg No 142.478.015A

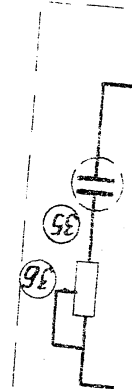
<i>Unit 7</i> <i>Elementary circuit</i> <i>diagram</i>	<i>142.478.015C2</i>	
	<i>Sheet 1</i>	<i>sheets 1</i>

10H+	9
10H+	5
10H	0L
	7
	E
10H+	6
+	1
-	2
10H	10H

+	2
175	L
+	1
"	0L
"	6
10H	8
10H	9
10H	E
10H	5
10H	7
10H	10H

Headphones

(4)



Ref.	GOST, Spec. Dwg. No.	Description and type	Rating	Q-ty	Remarks
1	3A3.181.000	Tachogenerator AT-261	110 V 400 Hz	1	
2	10.719.0490n	Transformer #10x32	110 V 500 Hz	1	
3	10.719.0490n	Rotary transformer	110 V 500 Hz	1	Class of accuracy
4		Resistor GBO-1-1.5W 100-1-0	1.5 kohm	1	
5	16.722.056	Packet switch		1	
6		Capacitor MBF-2-700-A-10-11	10 μ F	1	
7	16.762.365	Motor 10H-553A	36 V 500 Hz	1	
9a	16.740.055ca	Contact group		2	
	16.610.096ca	Contact group with bracket		1	
9b	16.620.047ca	Contact group with bracket		1	
10		Switch 10H-1		1	
11		Switch 3H12H-18		1	
12	10.719.0490n	Transformer #12x12		1	
13		Capacitor KBF-G-125-C-0.47, 20%	0.47 μ F	2	
14	16.781.302ca	Motor CH-320	110 V d.c.	1	
15		Capacitor KBF-MI-28-1000-0.1 $\pm$ 10%	0.1 μ F	1	
16	GOST 6513-66	Resistor I R3B-15-100 $\pm$ 10%	100 ohms	1	
17	10.635.003 Gm	Potentiometer, 600 ohms $\pm$ 10% 3 W	600 ohms	1	
18	10.656.0490n	Terminal strip 16.737.403		1	
			10.719.015 A		
			Sheet: 1 Sheets: 3		

af.	PMSI, Spec., Dwg. No.	Description and type	Rating	Q-ty	Remarks
1-26		Scale lamp CM-36	3 V 0.2 A	6	
27		Double switch WPC 4			

Terminal strip PC-10	10-term.	2
Germanium rectifier 1P-5		1
Terminal strip PC-10	10-term.	3

NY 2.478.015 A

Sheet: 2 Sheets: 3